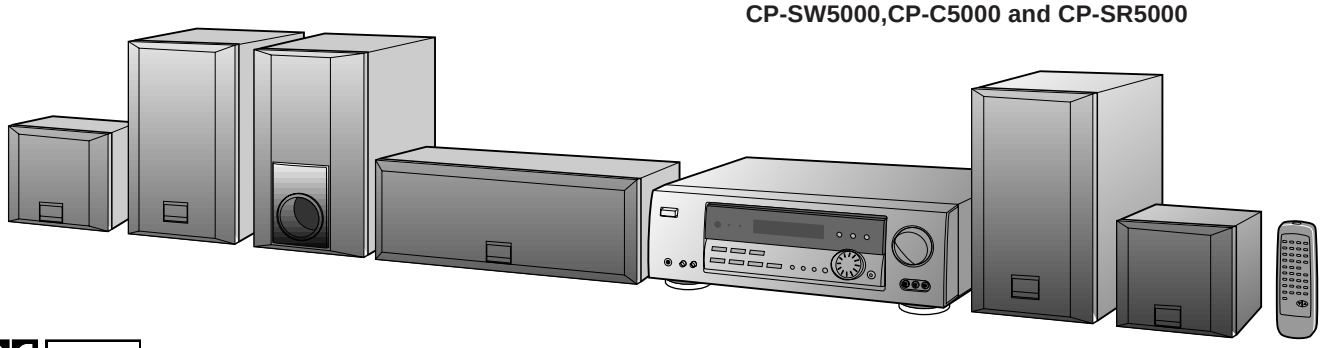
SHARP SERVICE MANUAL

No. S9876HTDD5000

HT-DD5000
HT-DD5000C

HT-DD5000/C consisting of HT-DD5000/C,CP-F5000, CP-SW5000,CP-C5000 and CP-SR5000



DOLBY DIGITAL
Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved.

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used.

CONTENTS

Page
IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY) 2
SPECIFICATIONS 2
NAMES OF PARTS 3
QUICK GUIDE 5
DISASSEMBLY 7
ADJUSTMENT 9
BLOCK DIAGRAM 12
SCHEMATIC DIAGRAM/WIRING SIDE OF P.W.BOARD 16
NOTES ON SCHEMATIC DIAGRAM 38
TYPES OF TRANSISTOR AND LED 38
FUNCTION TABLE OF IC 39
FL SEGMENT 48
PARTS GUIDE/EXPLODED VIEW
PACKING OF THE SET (FOR U.S.A. ONLY)

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

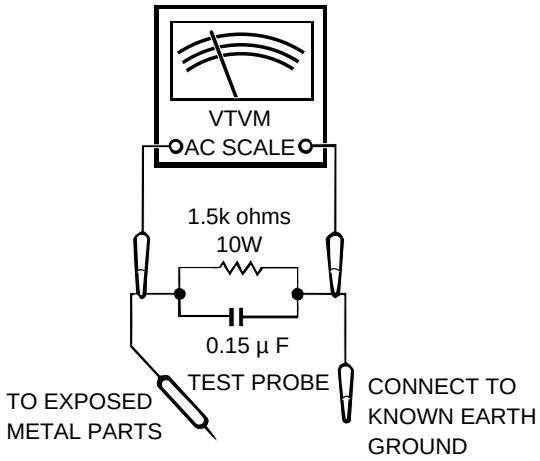
1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.

* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.

* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).

* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

SPECIFICATIONS

HT-DD5000/C

● General

Type: Home theater receiver
Power source: AC 120 V, 60 Hz
Power consumption: 170 W
Dimenslons: Width; 16-15/16" (430 mm)
Height; 5-15/16" (150 mm)
Depth; 13-11/16" (347 mm)
Weight: 21.6 lbs. (9.8 kg)
Output power: (Front)
40 watts minimum RMS per channel into 8 ohms from 60 Hz to 20 kHz, 0.9 % total harmonic distortion.
(Center)
RMS; 40 W (0.9 % T.H.D.)
(Surround)
RMS; 40 W/CH (0.9 % T.H.D.)
(Sub woofer)
RMS; 40 W (0.9 % T.H.D.)
Output terminals: Front speakers; 8 ohms
Center speaker; 8 ohms
Surround speakers; 8 ohms
Sub woofer; 8 ohms
Headphones; 16-50 ohms (recommended; 32 ohms)
Input terminals: DVD, VCR-1, VCR-2, CD/AUX, MD/TAPE; 500 mV/47 kohms
PHONO; 3.5 mV/47 kohms

● Tuner section

Frequency range: FM; 87.5 - 108 MHz
AM; 530 - 1,720 kHz

CP-F5000

● Front speaker section

Type: 2-way, 6-5/16" (16 cm) woofer, and 2" (5 cm) tweeter
Maximum Input power: 80 W
Impedance: 8 ohms
Dimensions: Width; 8-5/16" (210 mm)
Height; 13" (330 mm)
Depth; 8-5/8" (218 mm)
Weight: 8.2 lbs. (3.7 kg)/each

CP-C5000

● Center speaker section

Type: 2-way, 5-1/8" (13 cm) woofer and 2" (5 cm) tweeter
Maximum Input power: 80 W
Impedance: 8 ohms
Dimensions: Width; 15-3/4" (400 mm)
Height; 6-1/2" (165 mm)
Depth; 6-7/16" (163 mm)
Weight: 6.4 lbs. (2.9 kg)

CP-SR5000

● Surround speaker section

Type: 2-way, 5-1/8" (13 cm) woofer and 2" (5 cm) tweeter
Maximum Input power: 80 W
Impedance: 8 ohms
Dimensions: Width; 8-5/16" (210 mm)
Height; 6-1/2" (165 mm)
Depth; 6-7/16" (163 mm)
Weight: 3.5 lbs. (1.6 kg)/each

CP-SW5000

● Sub woofer section

Type: 6-5/16" (16 cm) super woofer
Maximum Input power: 80 W
Impedance: 8 ohms
Dimensions: Width; 8-5/16" (210 mm)
Height; 13" (330 mm)
Depth; 13-3/8" (340 mm)
Weight: 11.5 lbs. (5.2 kg)

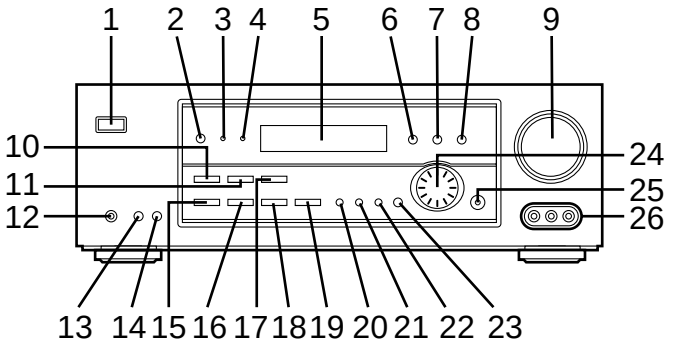
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

HT-DD5000/C

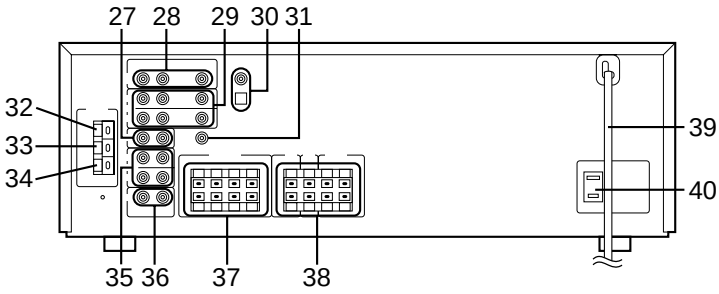
Front Panel

1. Power Switch
2. Remote Control Sensor
3. Stand-by Indicator
4. Timer Indicator
5. Display Panel
6. Dolby Surround Button
7. Eqalizer Button
8. Extra Bass Button: X-BASS
9. Volume Conrol
10. DVD Button
11. VCR-1 Button
12. Headphones Socket
13. Speaker A Button
14. Speaker B Button
15. CD/AUX Button
16. MD/TAPE Button
17. VCR-2 Button
18. PHONO Button
19. Tuner (Band) Button
20. Tuning Down Button
21. Tuning Up Button
22. Memory Button
23. Timer/ Sleep Button
24. Jog Dial
25. Enter Button
26. VCR-2 Input Sockets



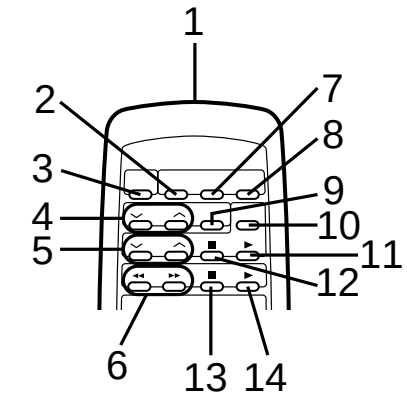
Rear Panel

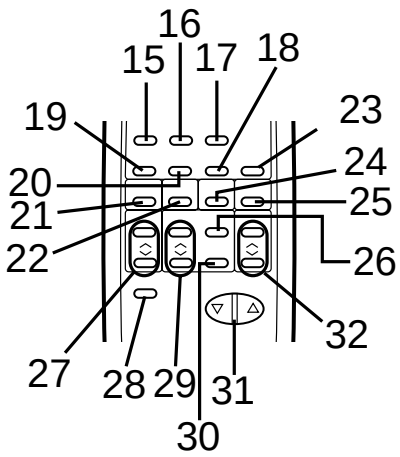
27. CD/AUX Input Sockets
28. DVD Input Sockets
29. VCR-1 Input/Output Sockets
30. DVD Digital Input Sockets
31. Video Monitor Output Socket
32. AM Antenna Terminal
33. Antenna Ground Terminal
34. FM Antenna Terminal
35. MD/TAPE Input/Output Sockets
36 Phono Input Sockets
37. Front Speaker Terminals
38. Center/Surround Speaker/Sub Woofer Terminals
39. AC Power Cord
40. AC Outlet Socket



Remote Control

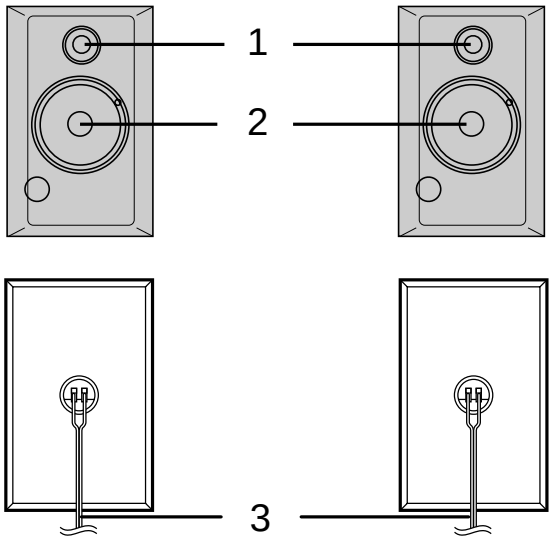
1. Remote Control Transmitter LED
2. TV Power Button
3. Power Button
4. TV CH Up/Down Button: ∨/∧
5. VCR CH Up/Down Button: ∨/∧
6. DVD Track Up/Down Button: ◀◀/▶▶
7. VCR Power Button
8. DVD Power Button
9. TV/VIDEO Button
10. TV/VCR Button
11. VCR Play Button: ▶
12. VCR Stop Button: ■
13. DVD Stop Button: ■
14. DVD Play Button: ▶
15. DVD Button
16. VCR-1 Button
17. VCR-2 Button
18. PHONO Button
19. CD/AUX Button
20. MD/TAPE Button
21. Dolby Surround Button
22. Eqalizer Button
23. Tuner (Band) Button
24. Extra Bass Button: X-BASS
25. Preset Balance Button
26. Menu Button
27. Sub Woofer Level Button
28. Mute Button
29. Set Up Up/Down Button: ∨/∧
30. Item Button
31. Volume Up/Down Button: ∨/∧





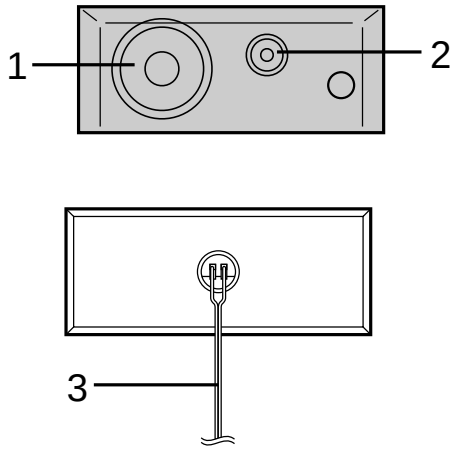
CP-F5000

1. Tweeter
2. Woofer
3. Speaker Cord



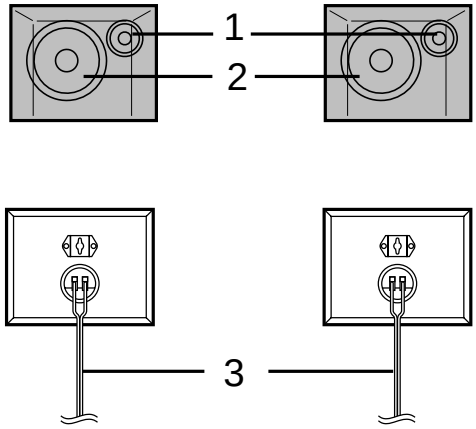
CP-C5000

1. Tweeter
2. Woofer
3. Speaker Cord



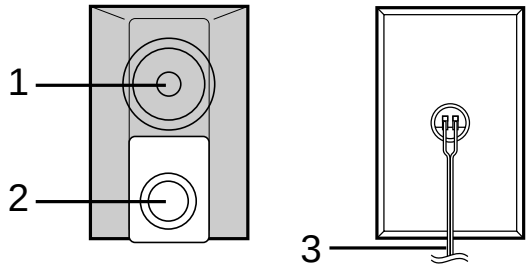
CP-SR5000

1. Tweeter
2. Woofer
3. Speaker Cord



CP-SW5000

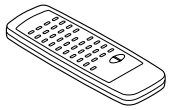
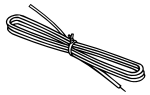
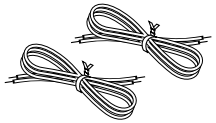
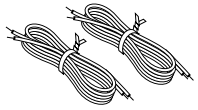
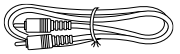
1. Woofer
2. Bass Reflex Duct
3. Speaker Cord



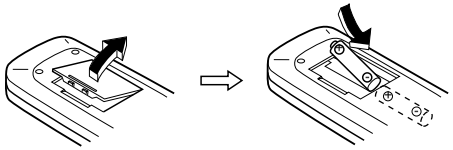
SHARP

HOME THEATER SYSTEM
Quick Guide/Guía rápida HT-DD5000

1 Check the supplied accessories /*Compruebe los accesorios suministrados*

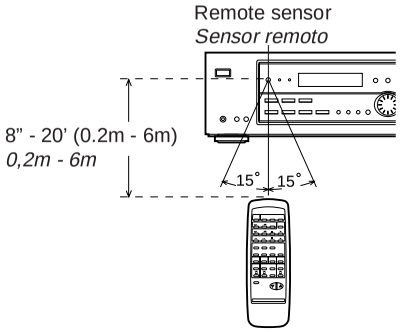
 ● **Remote control x 1** ● ***Controlador remoto x 1***	 ● **FM antenna x 1** ● ***Antena de FM x 1***	● **AM loop antenna x 1** ● ***Antena de cuadro de AM x 1***
 ● **Front speaker wire x 2** ● ***Cable del altavoz frontal x 2***	● **Center speaker wire x 1** ● ***Cable del altavoz central x 1***	● **Sub woofer wire x 1** ● ***Cable del altavoz de subgraves x 1***
 ● **Surround speaker wire x 2** ● ***Cable del altavoz de sonido perimétrico x 2***	● **RCA cord x 1** ● ***Cable RCA x 1***	 ● **Coaxial digital cord x 1** ● ***Cable digital coaxial x 1***

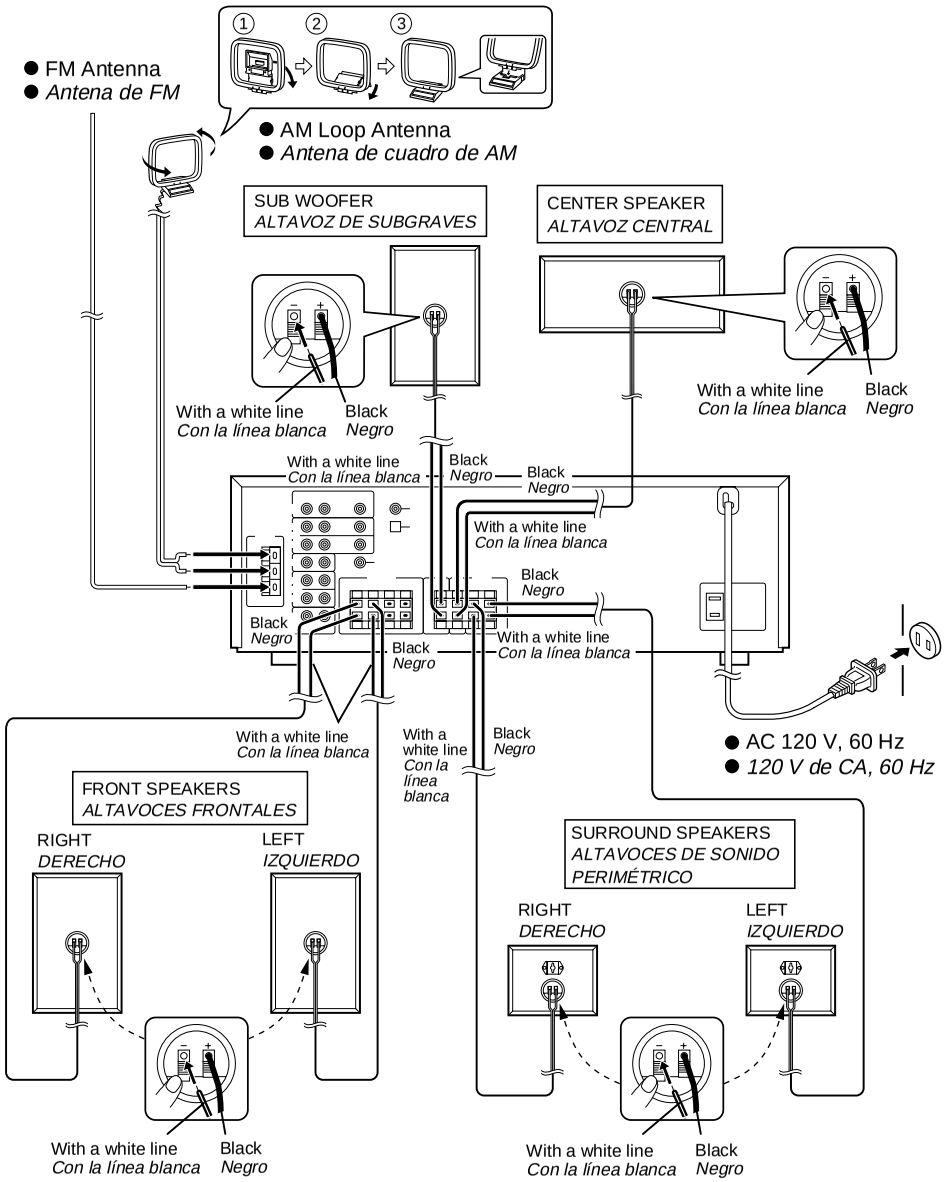
2 How to use the remote control / *Empleo del controlador remoto*



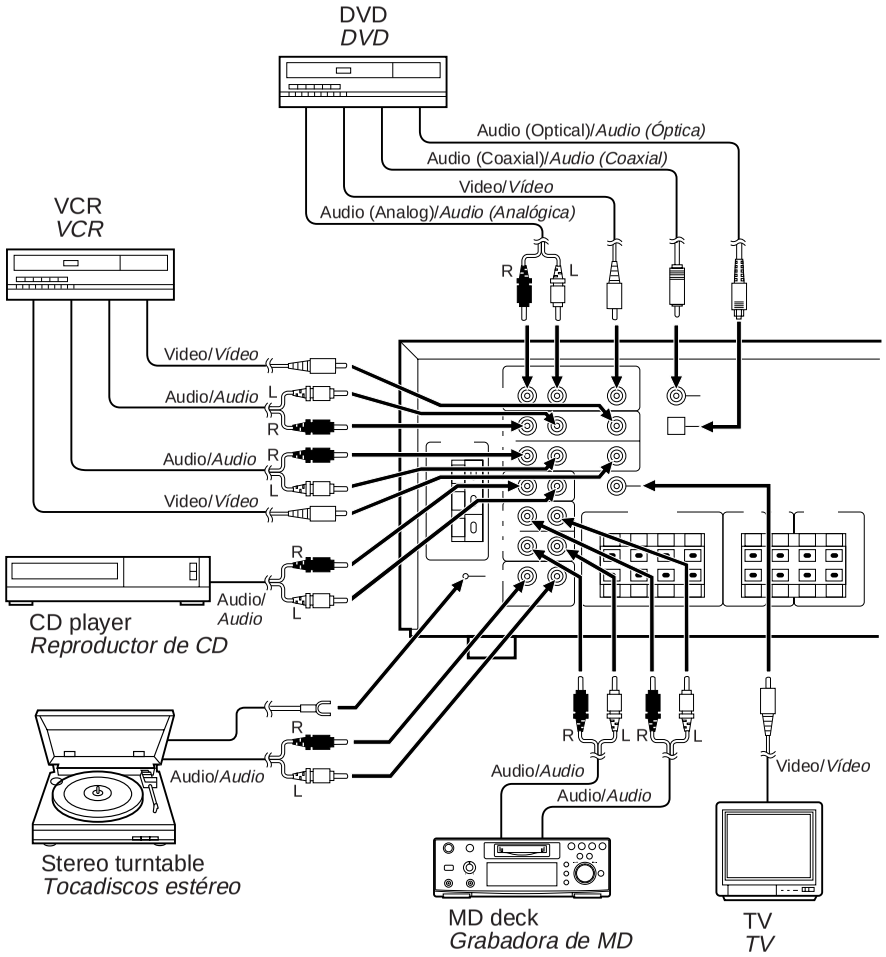
● 2 “AA” batteries
● *Dos pilas “AA”*

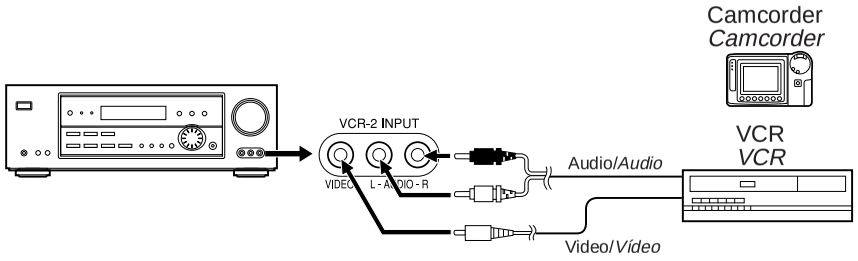
● Batteries are not included.
● *Las pilas no están incluidas.*



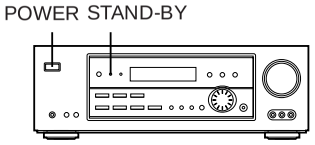


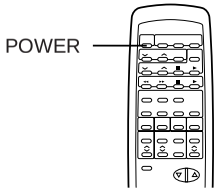
3 Connecting the system / *Conexión del sistema*





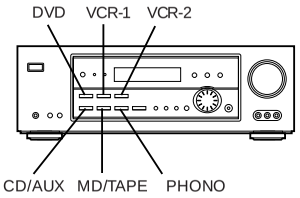
4 How to turn the power on or off/*Conexión y desconexión de la alimentación*

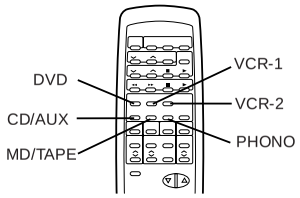




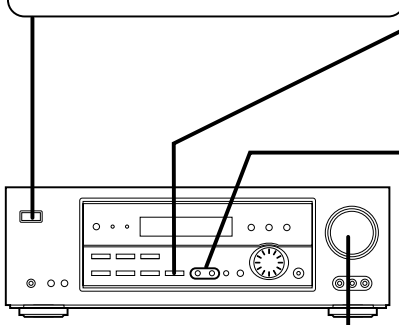
As long as the STAND-BY indicator is lit, you can turn the power on or put the unit in the stand-by mode, using the POWER button on the remote control.
Mientras el indicador STAND-BY esté encendido, podrá conectar la alimentación o establecer el aparato en el modo de reserva empleando el botón POWER del controlador remoto.

- **How to switch audio signals and video signals**
- ***Selección de señales de audio y señales de vídeo***

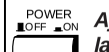




5 Listening to the radio / *Audición de la radio*



1 **Set the POWER button on the main unit to ON.**



Ajuste el botón POWER de la unidad principal en ON.

2 **Press the TUNER (BAND) button to select "FM ST" ,"FM"or "AM".**

Pulse el botón TUNER (BAND) para seleccionar "FM ST", "FM", o "AM".

3 **Press the TUNING (UP or DOWN) button to tune in to the desired station.**

Pulse el botón TUNING (por arriba o abajo) para sintonizar la emisora deseada.

4 **Adjust the volume level.**
When the VOLUME control is held in the + position, the volume will increase. When it is held in the - position, the volume will decrease.

Ajuste el nivel de volumen.
Cuando se mantiene pulsado el control VOLUME en la posición +, se incrementa el volumen. Cuando se mantiene pulsado en la posición -, se reduce el volumen.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suff cient care on static electricity of integrated circuits and other circuits when servicing.

HT-DD5000/C

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x5	7-1
2	Rear Panel/ Video Jack PWB/ Digital Input Jack PWB	1. Screw ..... (B1) x16 2. Socket ..... (B2) x3	7-1,2 7-2
3	Front Panel	1. Screw ..... (C1) x8 2. Socket ..... (C3) x4 3. Flat Cable ..... (C2) x2	7-2
4	Dolby PWB	1. Screw ..... (D1) x3 2. Flat Cable ..... (D2) x2 3. Screw ..... (D3) x4	8-1 7-3
5	Main PWB/Tuner PWB/Audio PWB	1. Screw ..... (E1) x12 2. Socket ..... (E2) x4	8-1
6	Power A PWB	1. Screw ..... (F1) x5 2. Socket ..... (F2) x2	8-1
7	Jog Dial	1. Knob ..... (G1) x1 2. Nut ..... (G2) x1	8-2
8	Display PWB	1. Screw ..... (H1) x10 2. Socket ..... (H2) x2	8-2
9	Switch PWB	1. Screw ..... (J1) x2	8-2
10	Headphones PWB	1. Screw ..... (K1) x3	8-2
11	VCR Input PWB	1. Screw ..... (L1) x3	8-2

CP-F5000

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer/Tweeter	1. Net ..... (A1) x1 2. Screw ..... (A2) x6	8-3

CP-C5000

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer/Tweeter	1. Net ..... (A1) x1 2. Screw ..... (A2) x6	8-4

CP-SR5000

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer/Tweeter	1. Net ..... (A1) x1 2. Screw ..... (A2) x6	8-5

CP-SW5000

STEP	REMOVAL	PROCEDURE	FIGURE
1	Speaker	1. Net ..... (A1) x1 2. Screw ..... (A2) x4	8-6

HT-DD5000/C

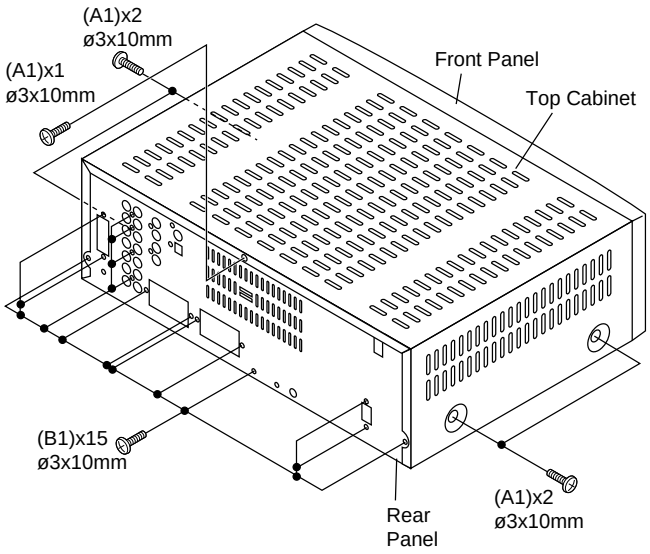


Figure 7-1

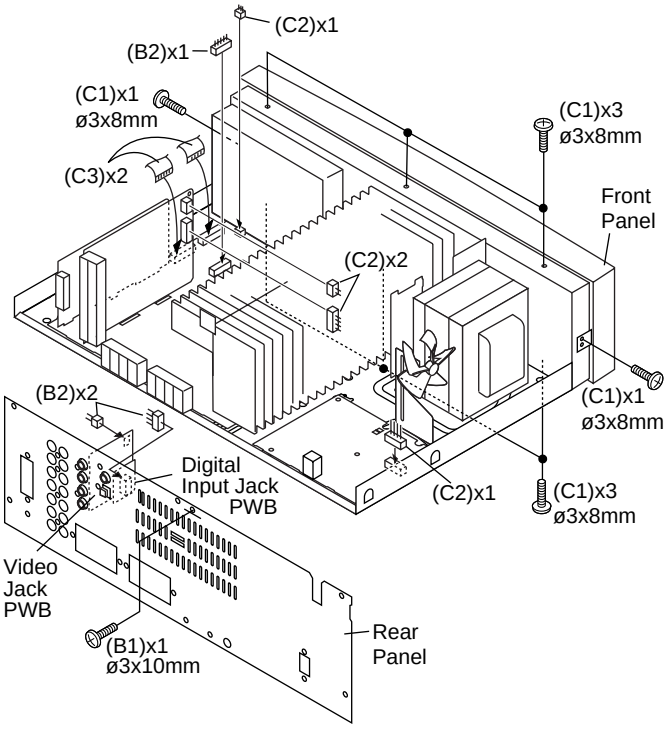


Figure 7-2

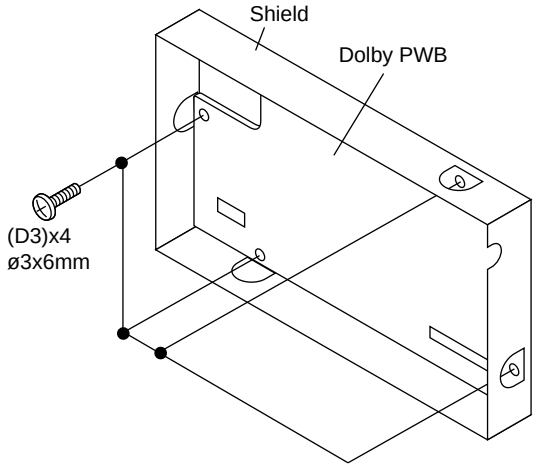


Figure 7-3

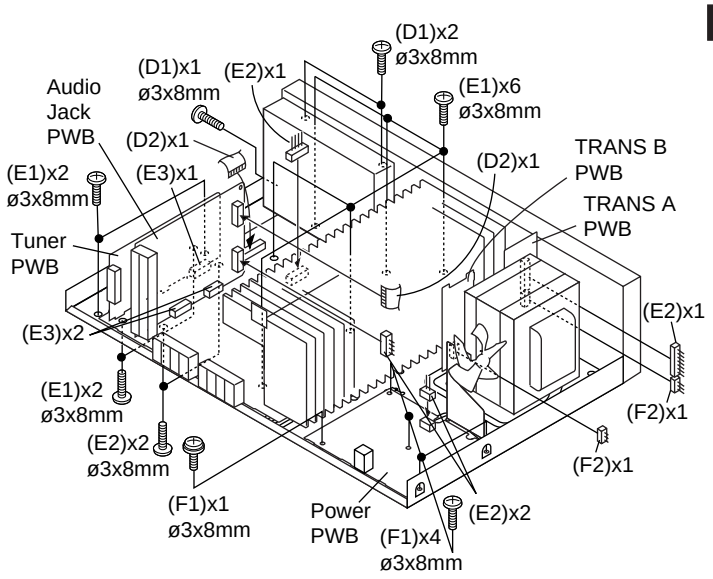


Figure 8-1

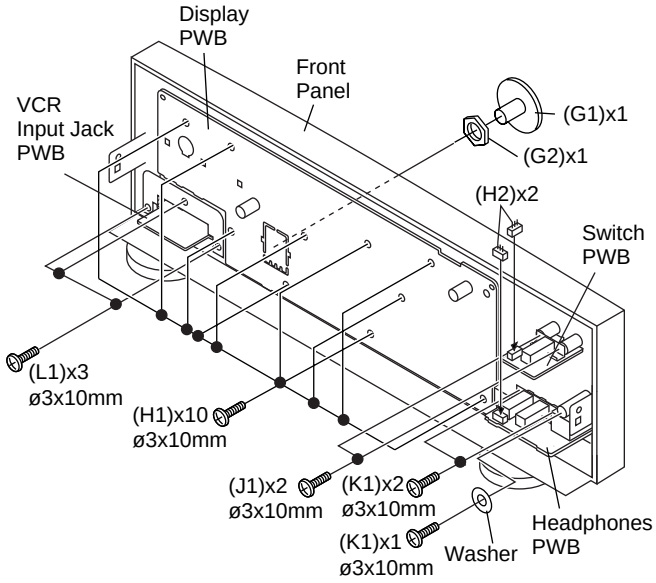


Figure 8-2

CP-F5000

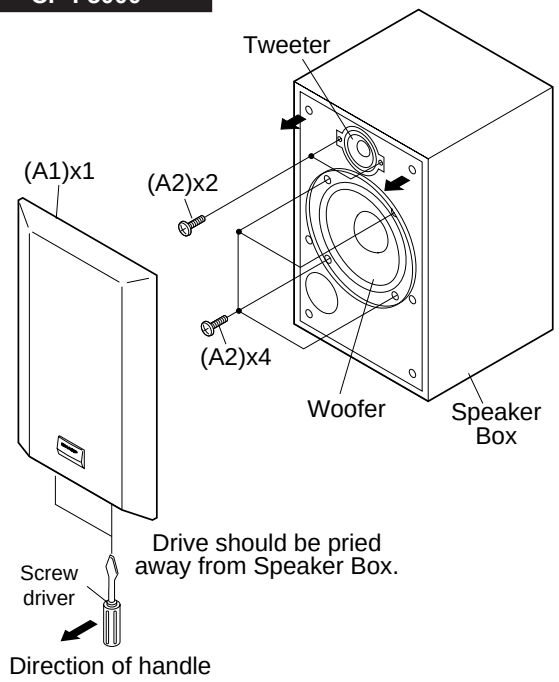


Figure 8-3

CP-C5000

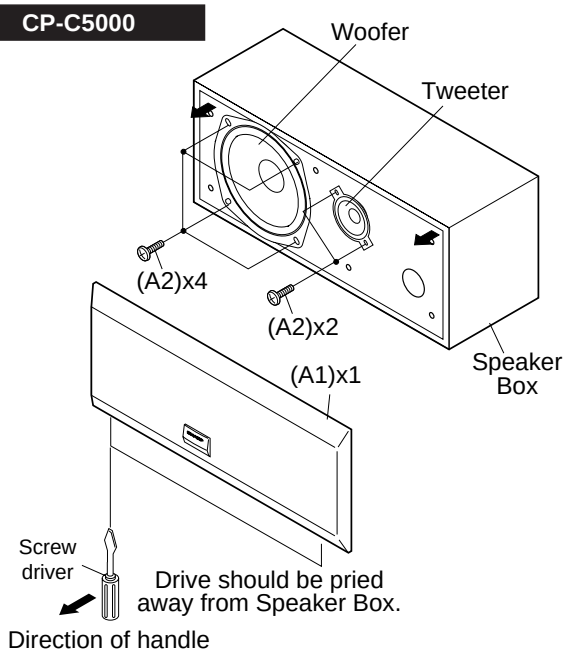


Figure 8-4

CP-SR5000

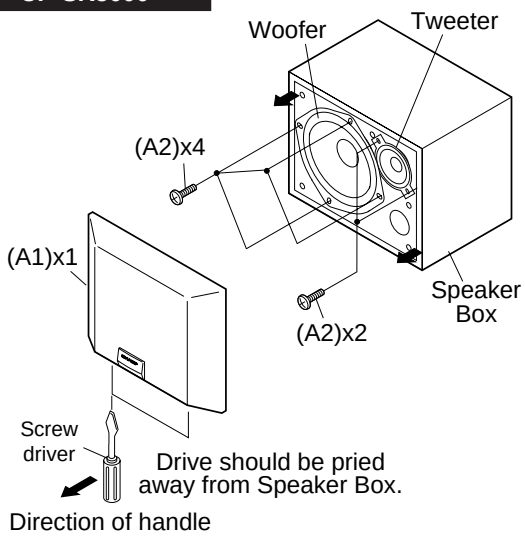


Figure 8-5

CP-SW5000

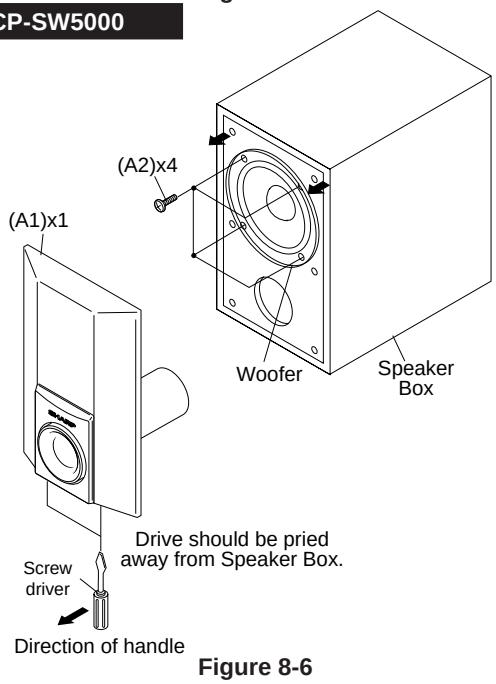


Figure 8-6

ADJUSTMENT

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
Band Coverage	—	87.5 kHz	(fL): L202 3.4 ± 0.1 V	*1
RF	98 MHz (10 - 30 dB)	98.0 MHz	L201	*2

*1. Input: Antenna, Output: TP302
*2. Input: Anetnna, Output: Speaker Terminal

• FM Detection

Signal generator: 10.7 MHz, FM sweep

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	10.7 MHz	98.0 MHz	T202 (Turn the core of T202 fully counter-clock wise)	Input: Pin 1 of IC201 Output: Pin 1of IC203

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,702 kHz	T204	*1
Band	—	530 kHz	(fL): T203 (AM Band Coverage 0.8V±0.1v	*2
Tracking	990 kHz	990 kHz	T201	*1

*1. Input: Antenna, Output: TP301
*2. Input: Input is not connected, Output: TP302

• Setting the Test Mode

Keeping the ENTER button and MEMORY button pressed, turn on POWER (of Main Set). Then, the frequency is initially set in the memory as shown in Table. Call it with the JOG to use it for adjustment and check of tuner circuit.

Preset No.	FM	Preset No.	AM
1	87.50 MHz	6	530 kHz
2	108.00 MHz	7	1,720 kHz
3	98.00 MHz	8	990 kHz
4	90.00 MHz	9	600 kHz
5	106.00 MHz	10	1,400 kHz
11~40	————		

• FM Mute Level

Signal generator: 1 kHz, 40 kHz dev., FM modulated

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.0 MHz (25 dBμV)	98.0 MHz	VR201 *1	Input: SOC201 Output: Speaker Terminal

*1. Adjust so that an output signal appears.

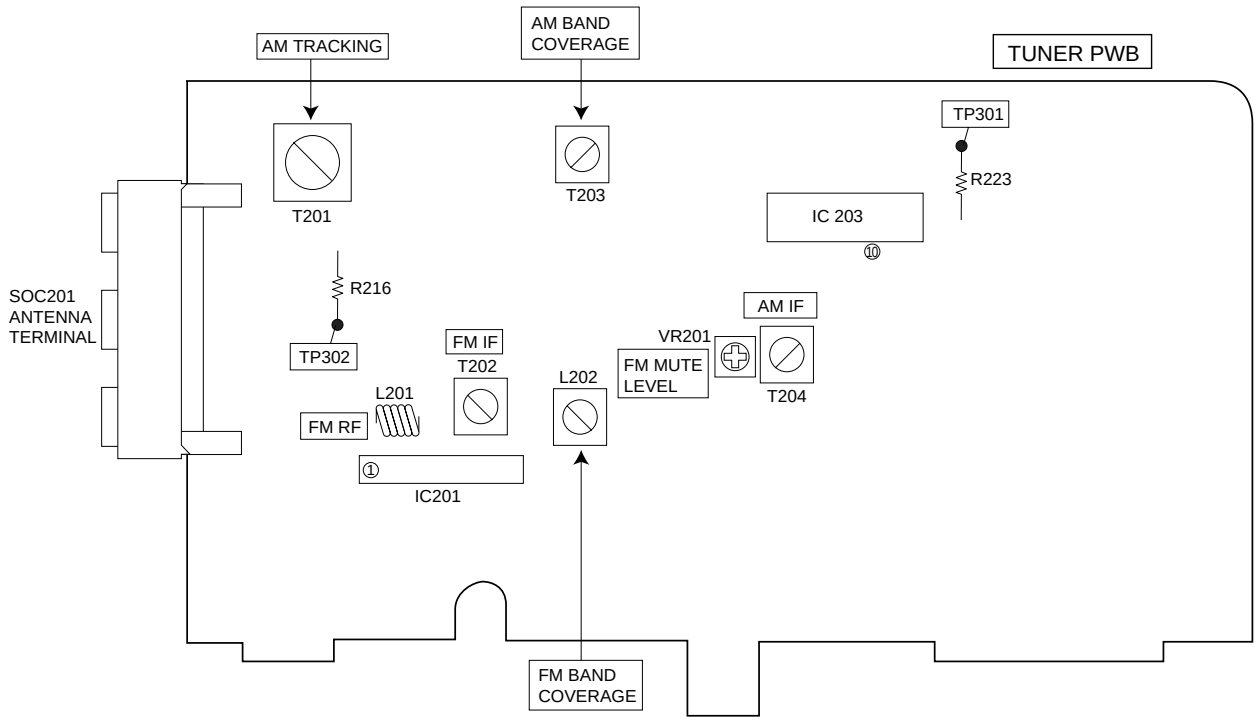


Figure 9 ADJUSTMENT POINTS

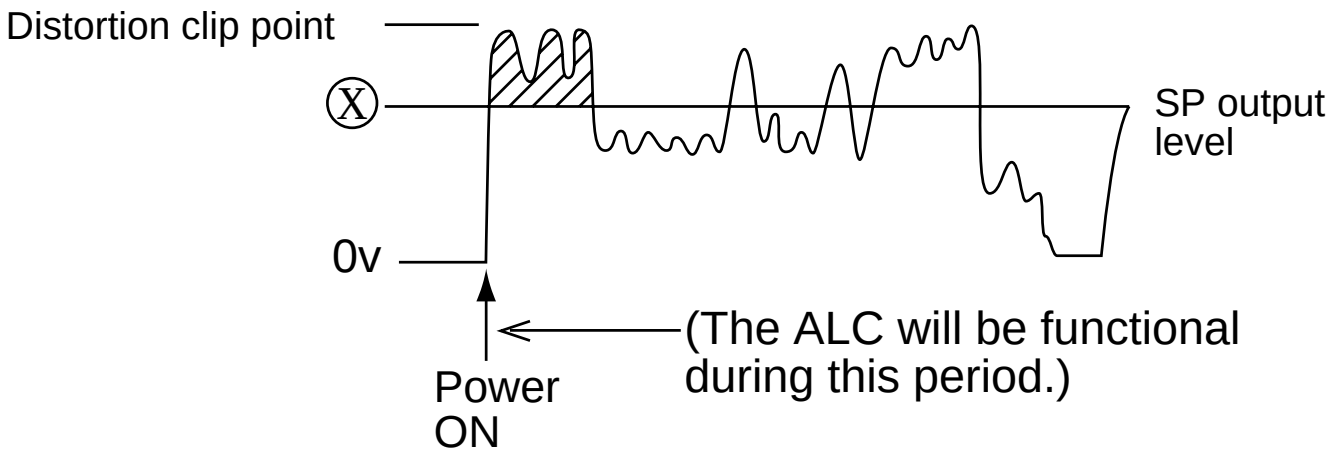
EXPLANATION OF AUTOMATIC SOUND VALUE CORRECTION CONTROL

1. Outline

The recent trend is toward rise of SOUND level in the world, for example rock, dancing music, etc. In case of continuous high level playback and VOL (Volume) are controlled (lowered) automatically after a lapse so as to get the easy-to-listen sound level. The ALC (Automatic Level Control) of the HT-DD5000 begins to operate immediately after the power is turned on.

2. Explanation of operation

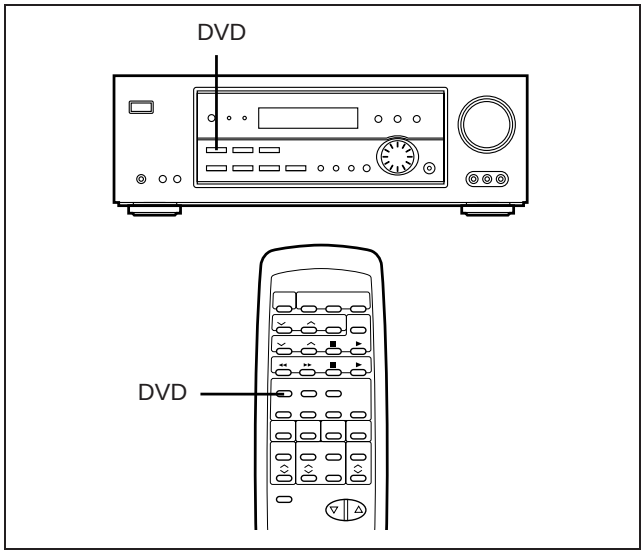
The SOUND operation is explained below.



ALC operation

① The ALC (Automatic Level Control) will begin operation immediately after the power switch is turned on.
② If the sound exceeds level Ⓧ , the ALC will instantaneously cut the volume back to level Ⓧ , and it will also respond to monophonic signals.
③ Since this control only effects the VOL level, it does not otherwise change the quality of the sound.

DOLBY DIGITAL



When you connect this unit to a DVD player which is playing a disc with the DOLBY DIGITAL trademark, you can enjoy realistic, powerful sound by playing back the recorded signal through 6 speakers with the sound coming from the front left, front right, center, surround left, surround right and sub woofer speakers.

To listen to a disc using the Dolby Digital mode:

1 Connect a DVD player.

2 Press the DVD button.

- The current DVD input channel will be displayed. If the DVD button is pressed while the current DVD channel is displayed, the input channel (ANALOG, COAXIAL, OPTICAL) can be changed.

3 Start the DVD player.

Note:

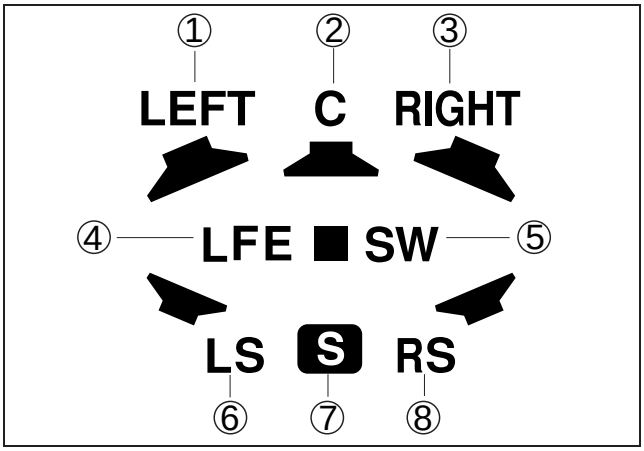
- When the Dolby Digital surround mode is being used, the equalizer will be set to FLAT.

Type of Dolby digital signal

There are different types of Dolby digital signals. When you select COAXIAL or OPTICAL for the DVD input channel, the following items will be displayed for 2 seconds. They will also be displayed when the DVD player is operating and the DVD button is pressed.

Display	Channels available	Display	Channels available
PRO LOGIC PCM 44.1 kHz	Normal PCM playback	DIGITAL 2/2 48.0 kHz	Front (L, R) + surround (L, R)
DIGITAL 1/0 48.0 kHz	Center only (monaural)	DIGITAL 3/0 48.0 kHz	Front (L, R) + center
DIGITAL 2/0 48.0 kHz	Front (L, R) (When the surround mode is set to Normal, Phantom or Wide sound will also be heard from the surround speakers.)	DIGITAL 3/1 48.0 kHz	Front (L, R) + center + surround (monaural)
DIGITAL 2/1 48.0 kHz	Front (L, R) + surround (monaural)	DIGITAL 3/2 48.0 kHz	Front (L, R) + center + surround (L, R)

- If a low frequency sound effect (Low Frequency Effect) contains a Dolby digital signal, "LFE" will light in the display. When this "LFE" is lit, low frequency signals will be output from the sub woofer.



When Dolby digital signals are input, the display will light up or go out, as shown to the left.
The channel speaker and SW indicators are used to set the sound for listening in the surround mode and will light up according to the speaker signals that are present.

① Lights up if the input contains a left channel signal.
② Lights up if the input contains a center channel signal.
③ Lights up if the input contains a right channel signal.
④ Lights up if the input contains an "LFE" signal.
Lights up when the amplifier setting will output sound to sub woofer.
⑥ Lights up if the input contains a left surround signal.
⑦ Lights up if the input contains surround signals.
⑧ Lights up if the input contains a right surround signal.

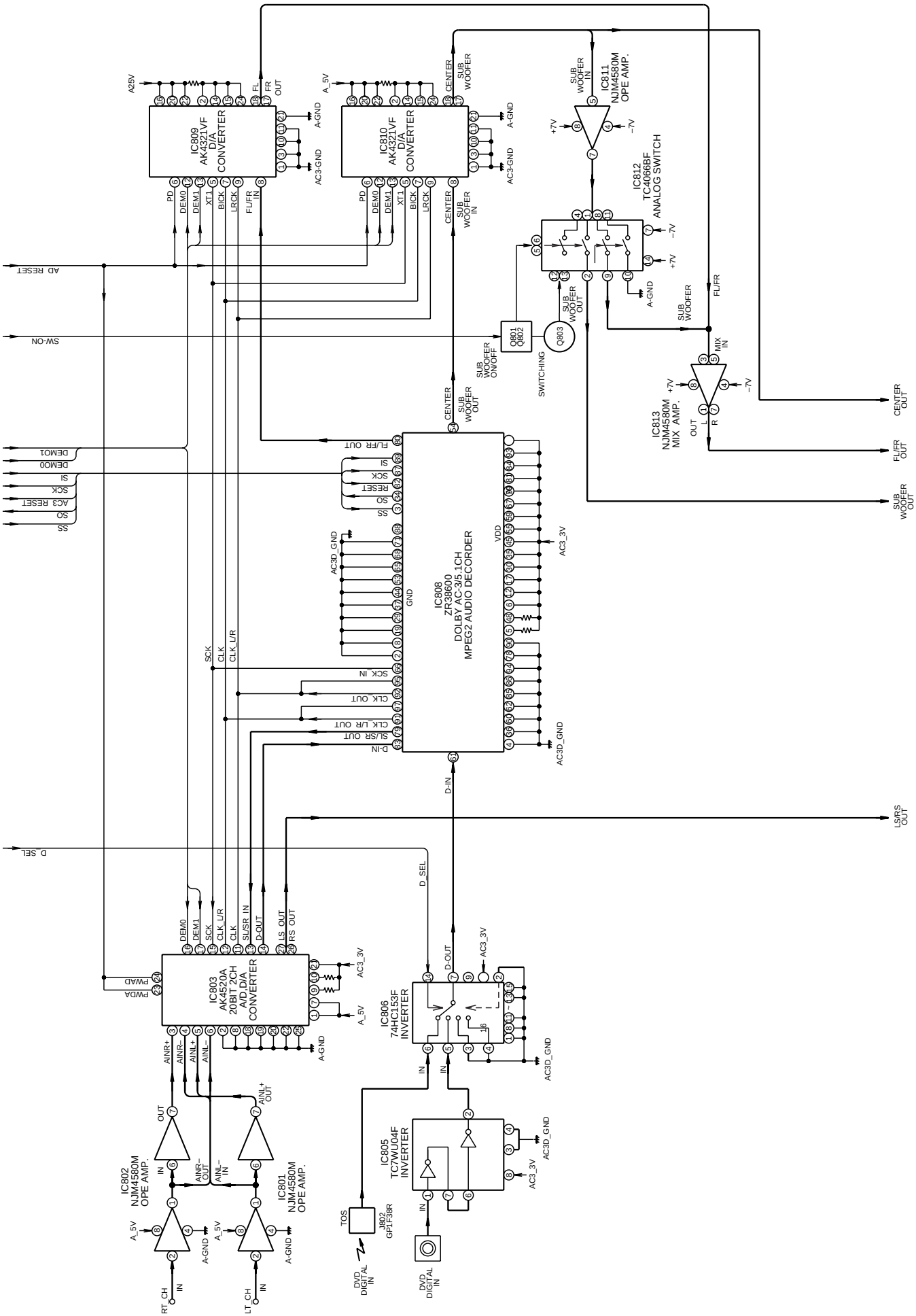


Figure 12 BLOCK DIAGRAM (1/4)

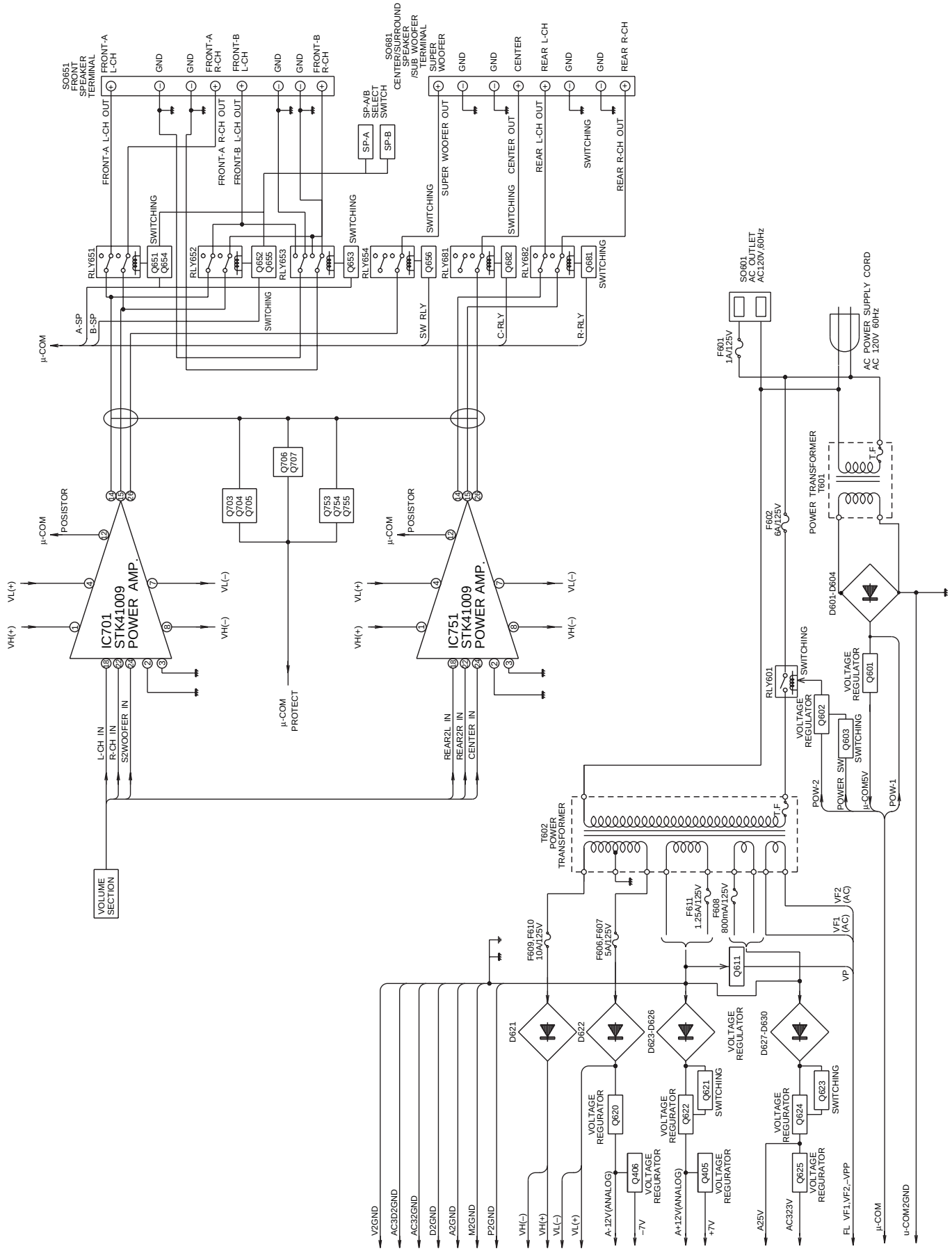


Figure 13 BLOCK DIAGRAM (2/4)

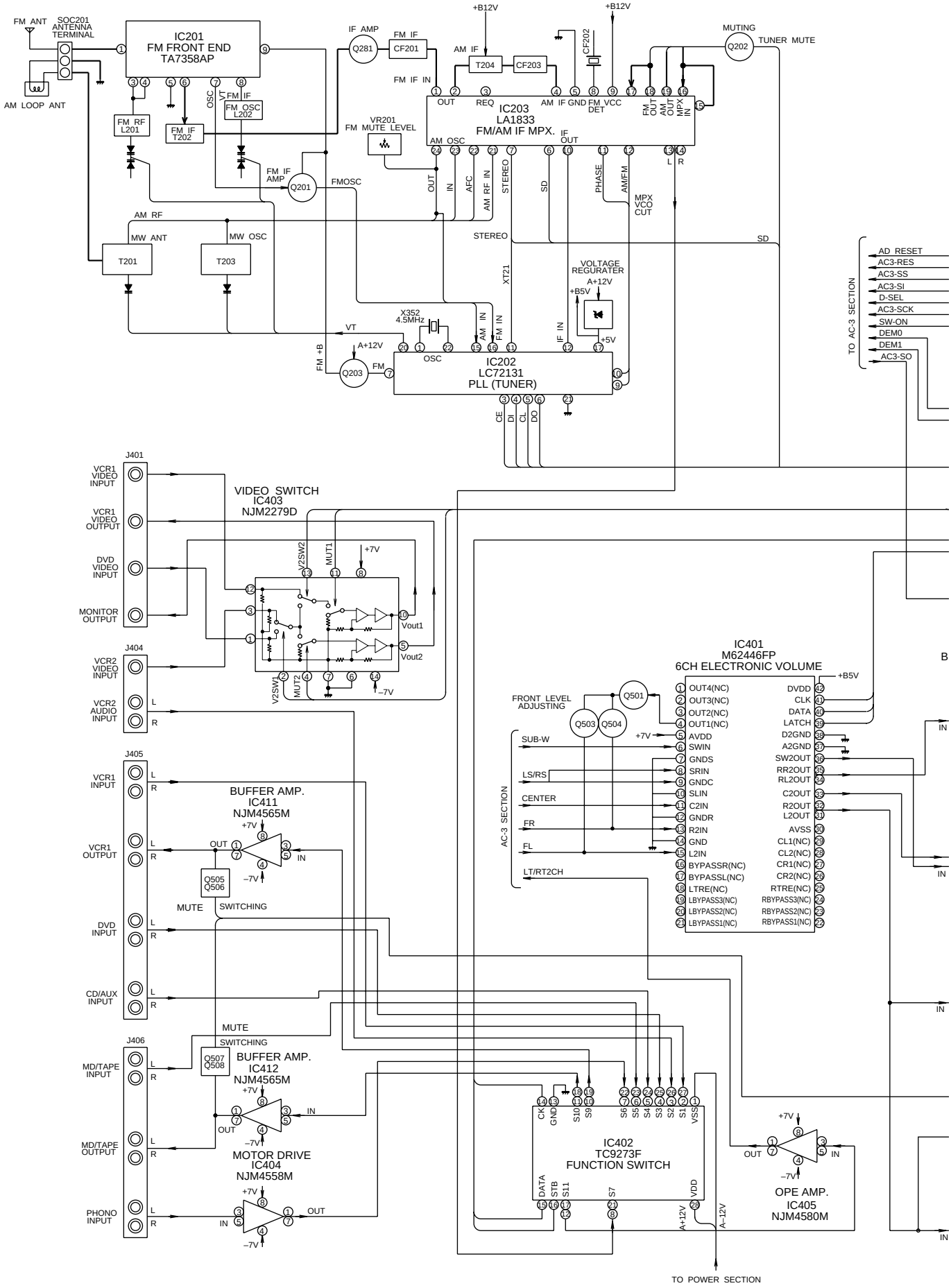


Figure 14 BLOCK DIAGRAM (3/4)

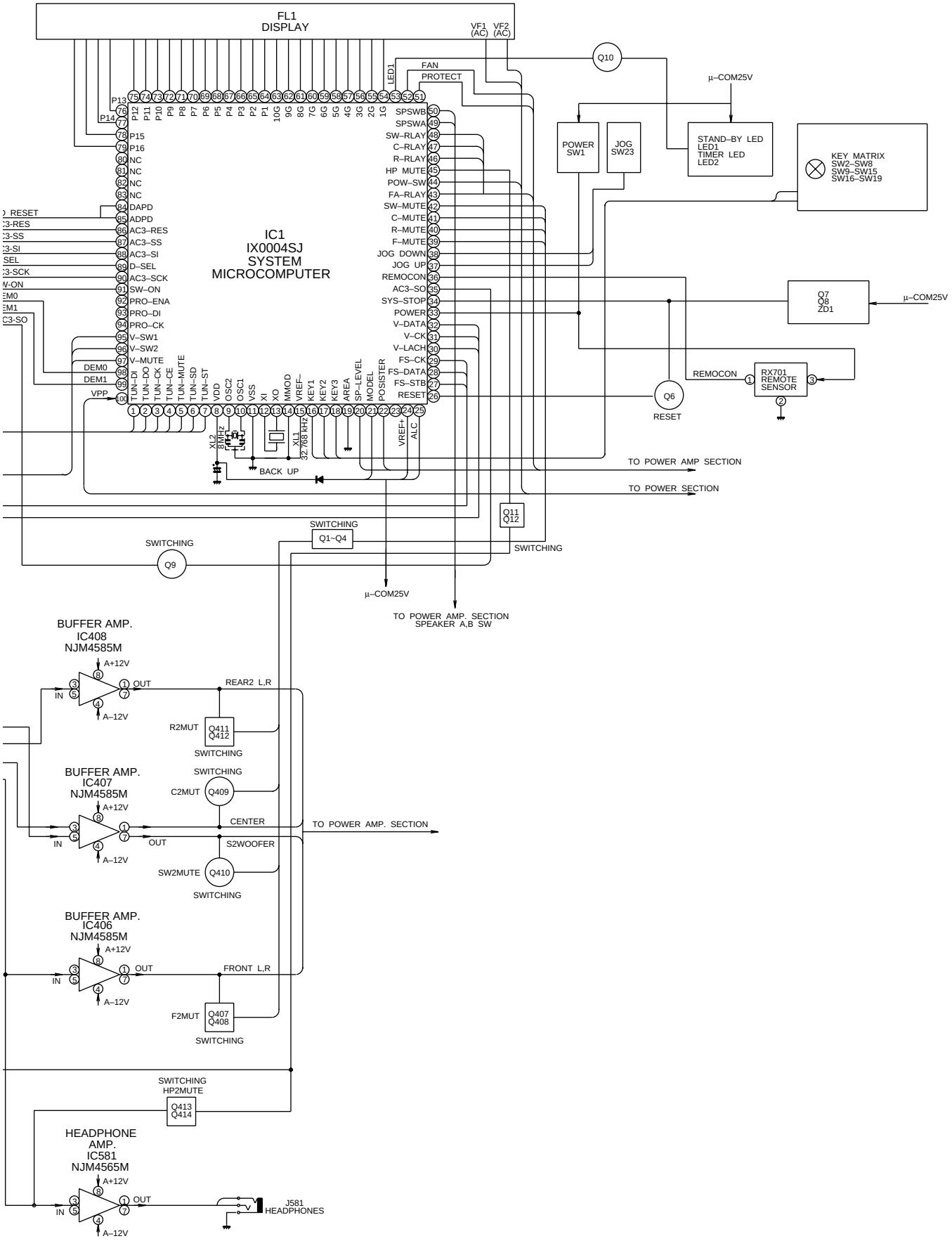
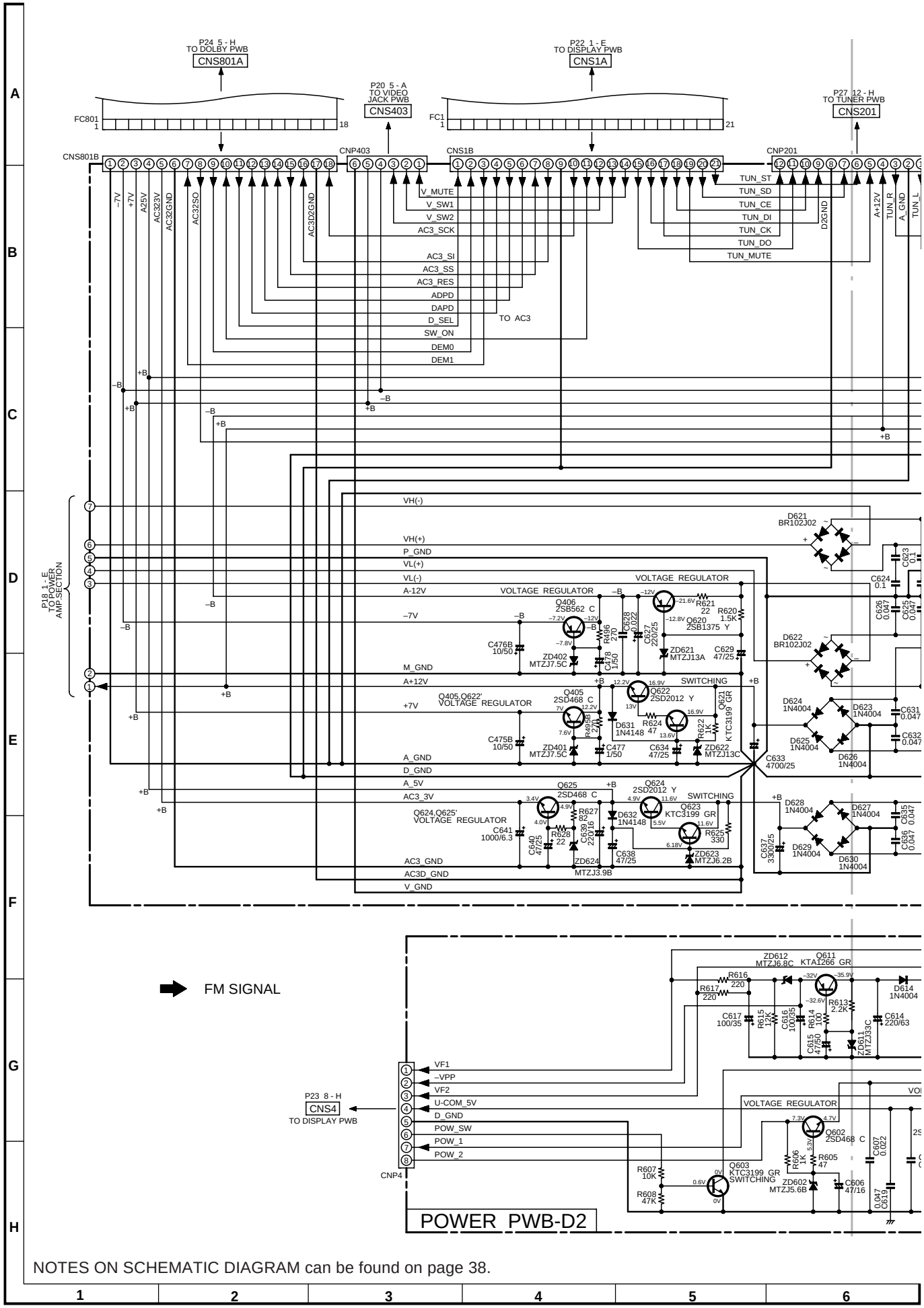
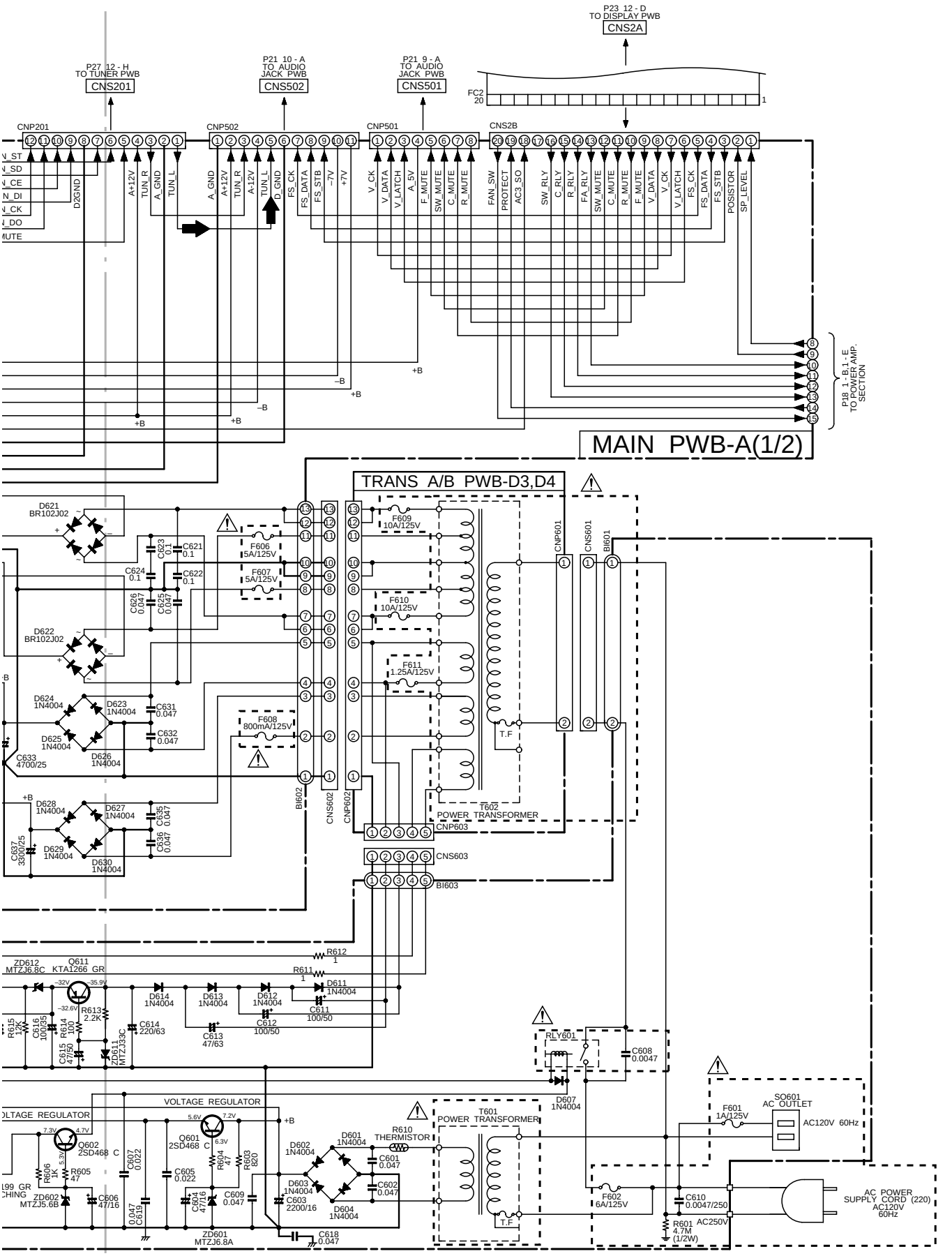


Figure 15 BLOCK DIAGRAM (4/4)



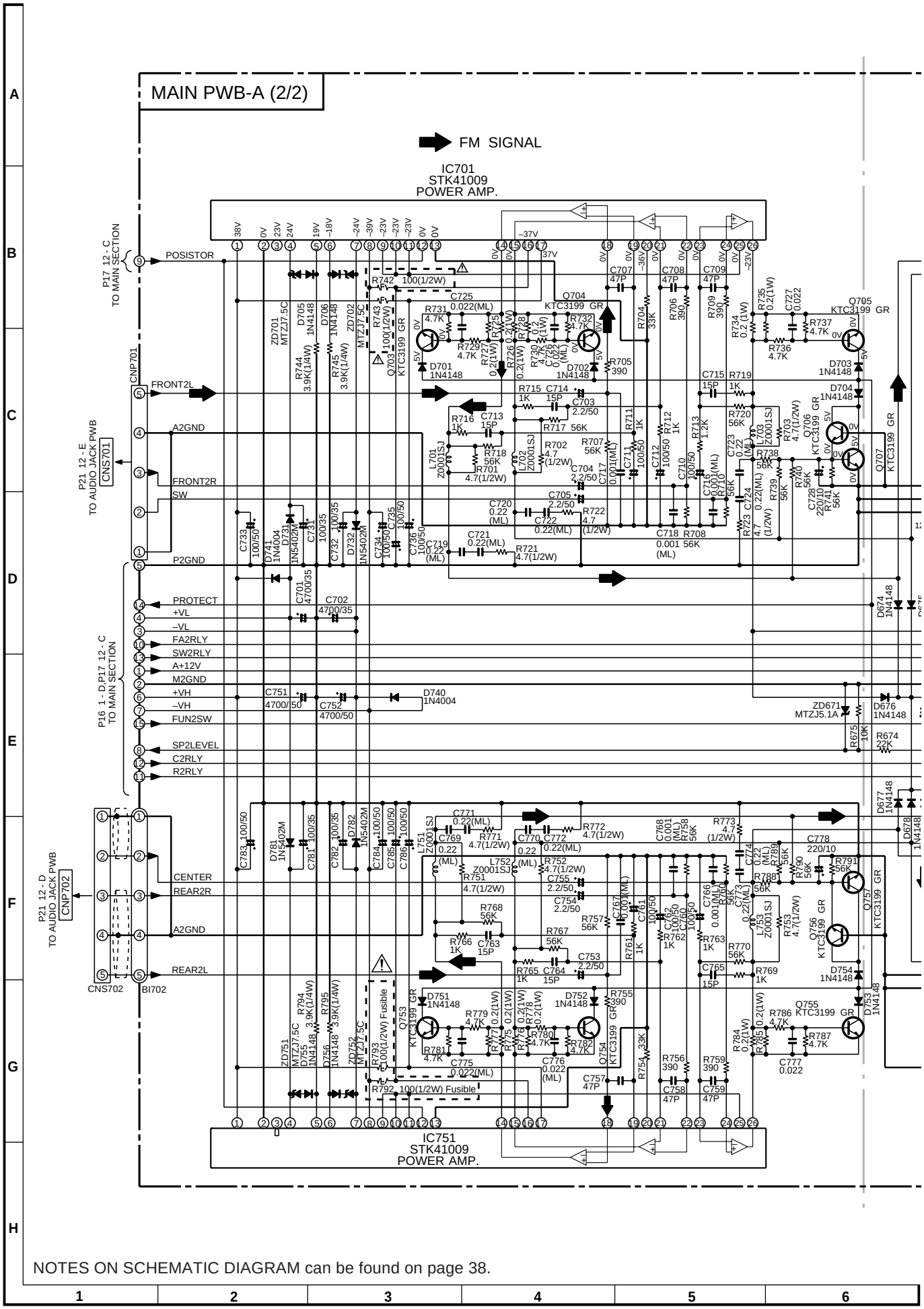
NOTES ON SCHEMATIC DIAGRAM can be found on page 38.

Figure 16 SCHEMATIC DIAGRAM (1/12)



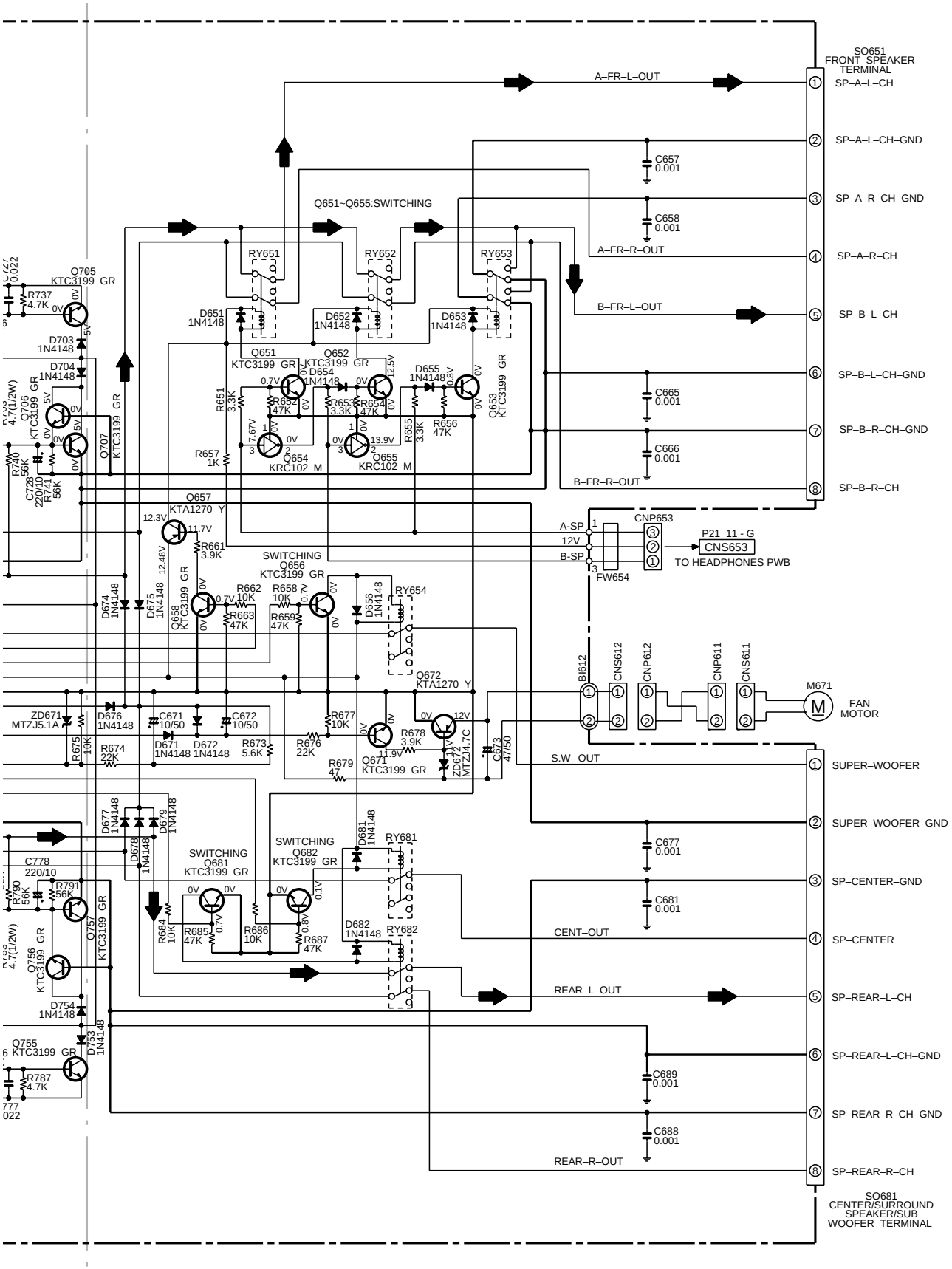
7	8	9	10	11	12

Figure 17 SCHEMATIC DIAGRAM (2/12)



NOTES ON SCHEMATIC DIAGRAM can be found on page 38.

Figure 18 SCHEMATIC DIAGRAM (3/12)



7	8	9	10	11	12

Figure 19 SCHEMATIC DIAGRAM (4/12)

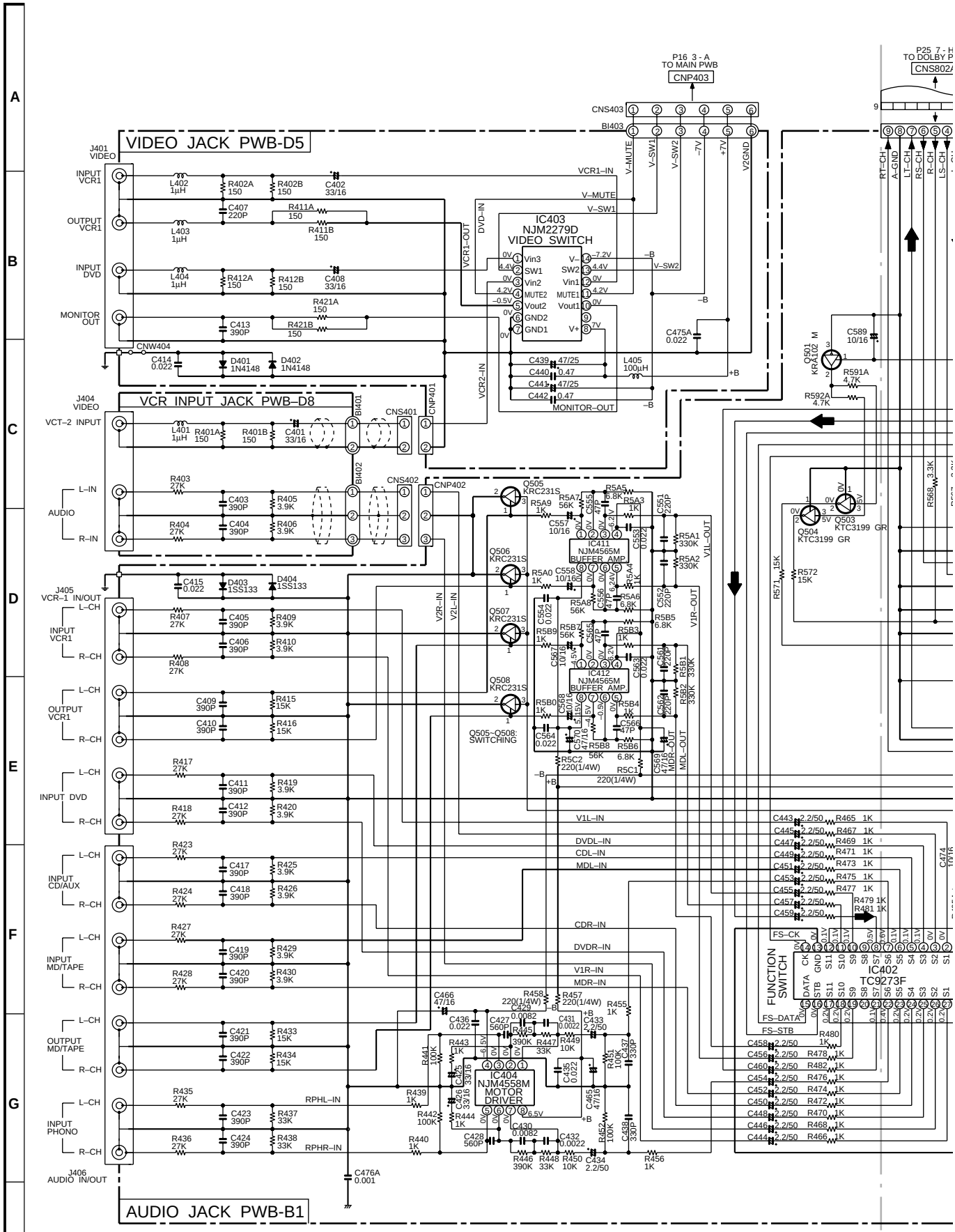


Figure 20 SCHEMATIC DIAGRAM (5/12)

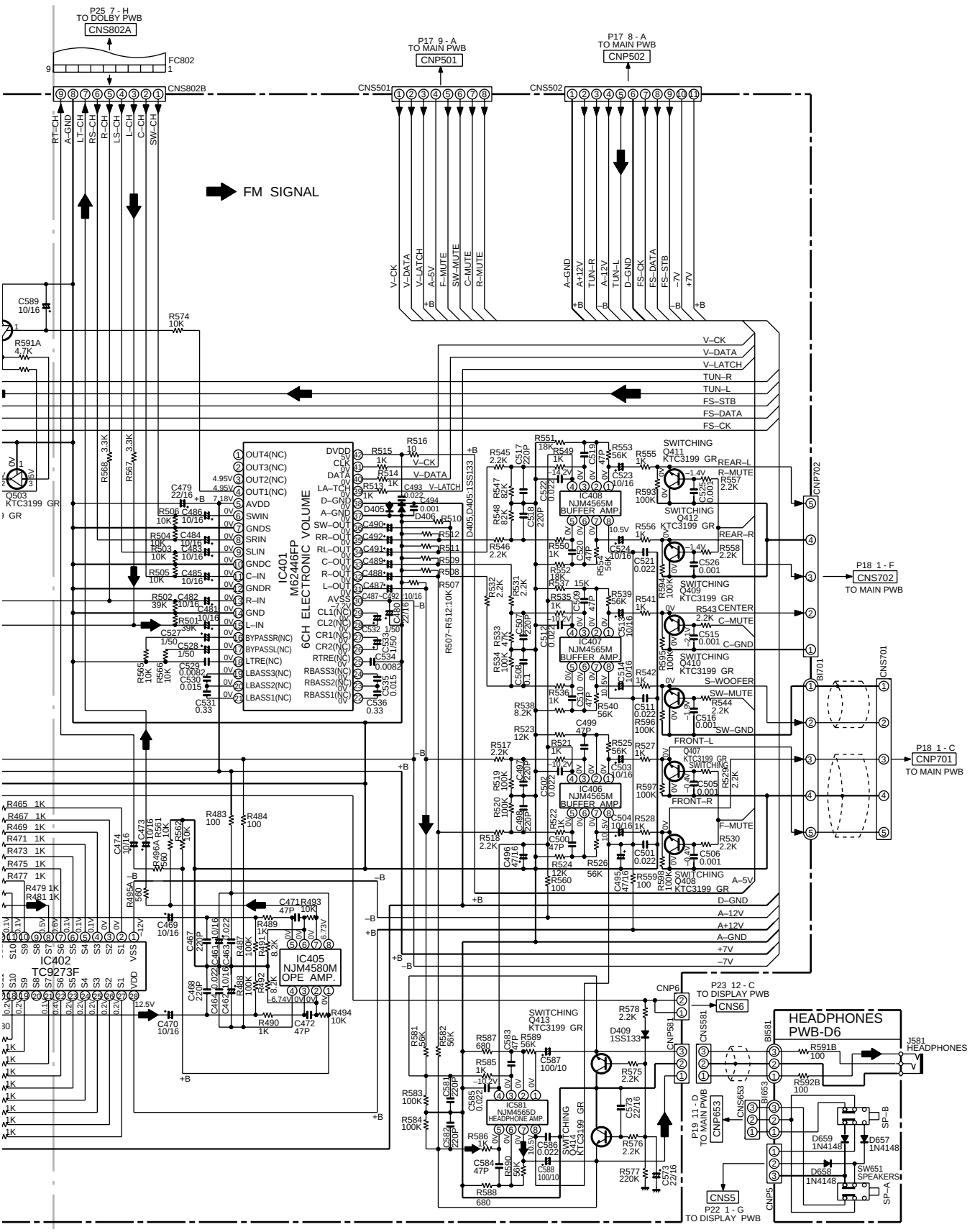
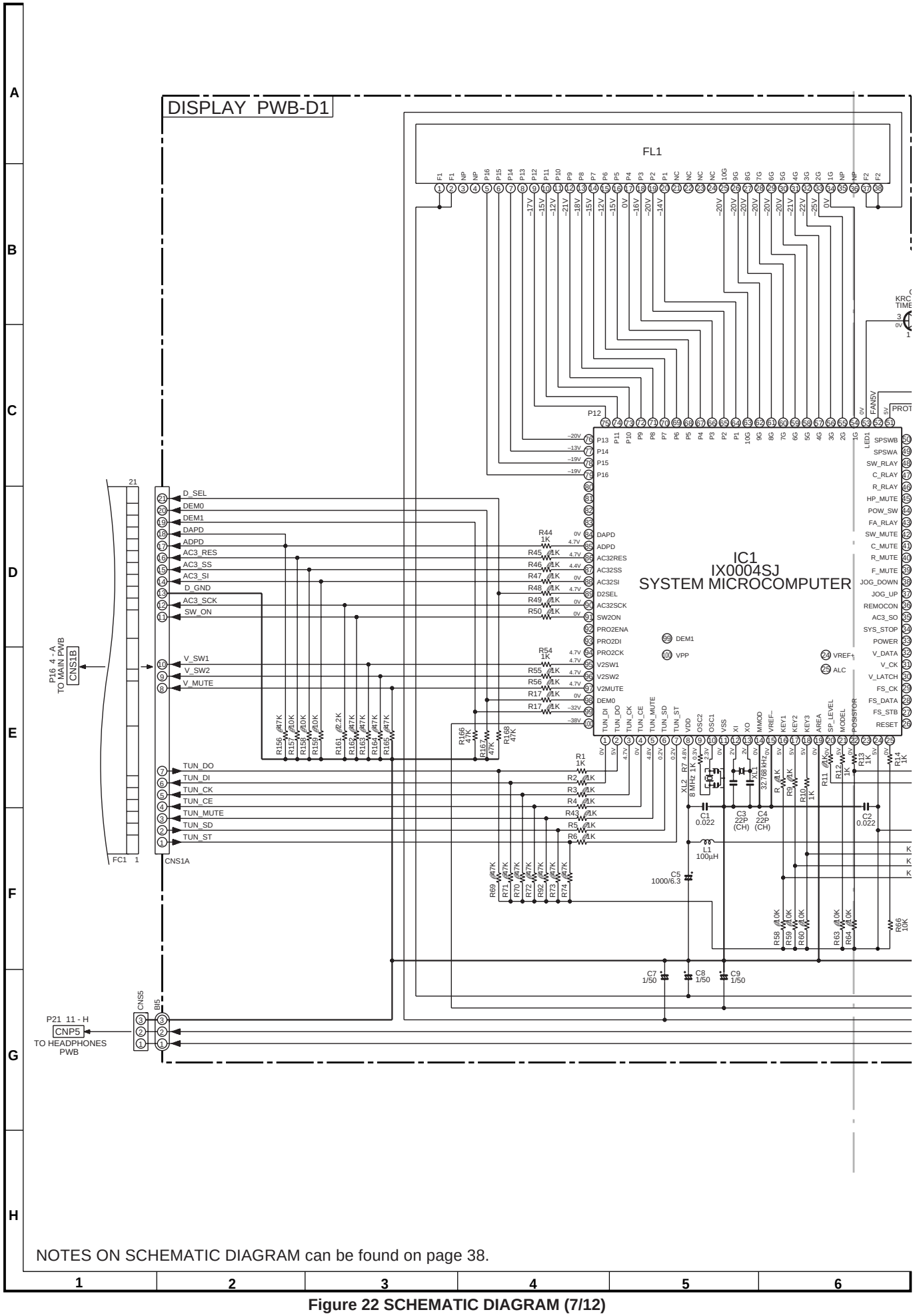
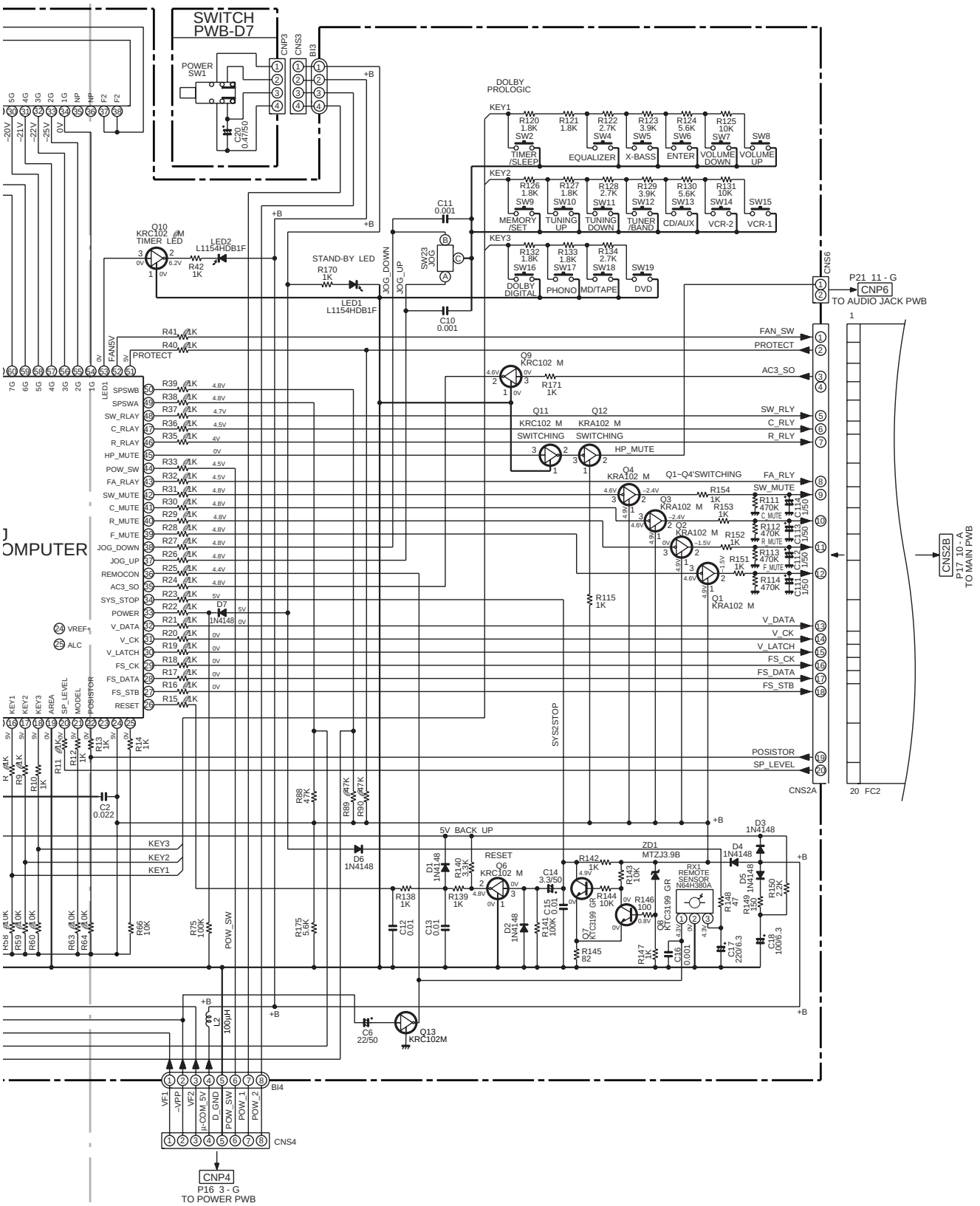


Figure 21 SCHEMATIC DIAGRAM (6/12)



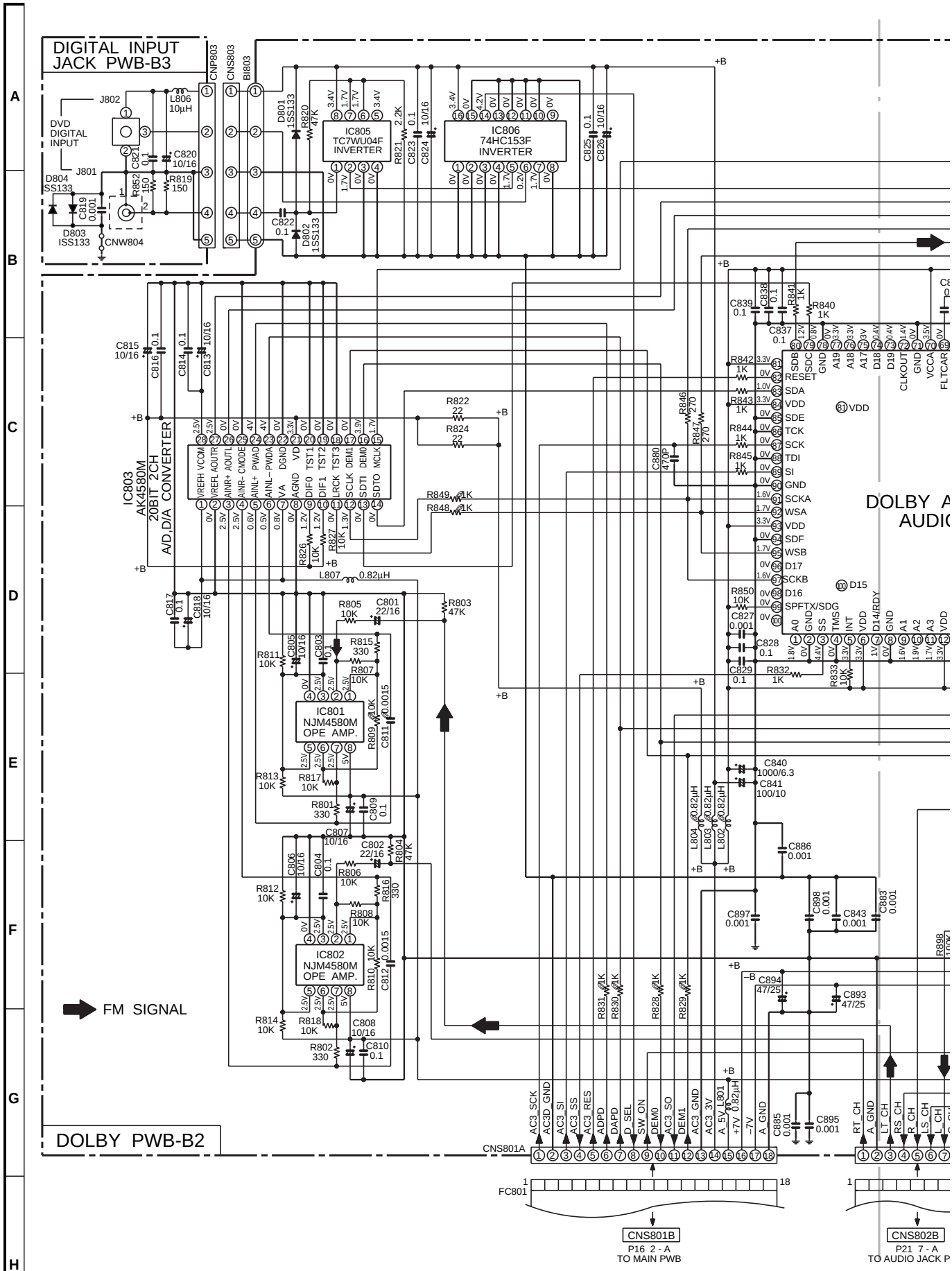
NOTES ON SCHEMATIC DIAGRAM can be found on page 38.

Figure 22 SCHEMATIC DIAGRAM (7/12)



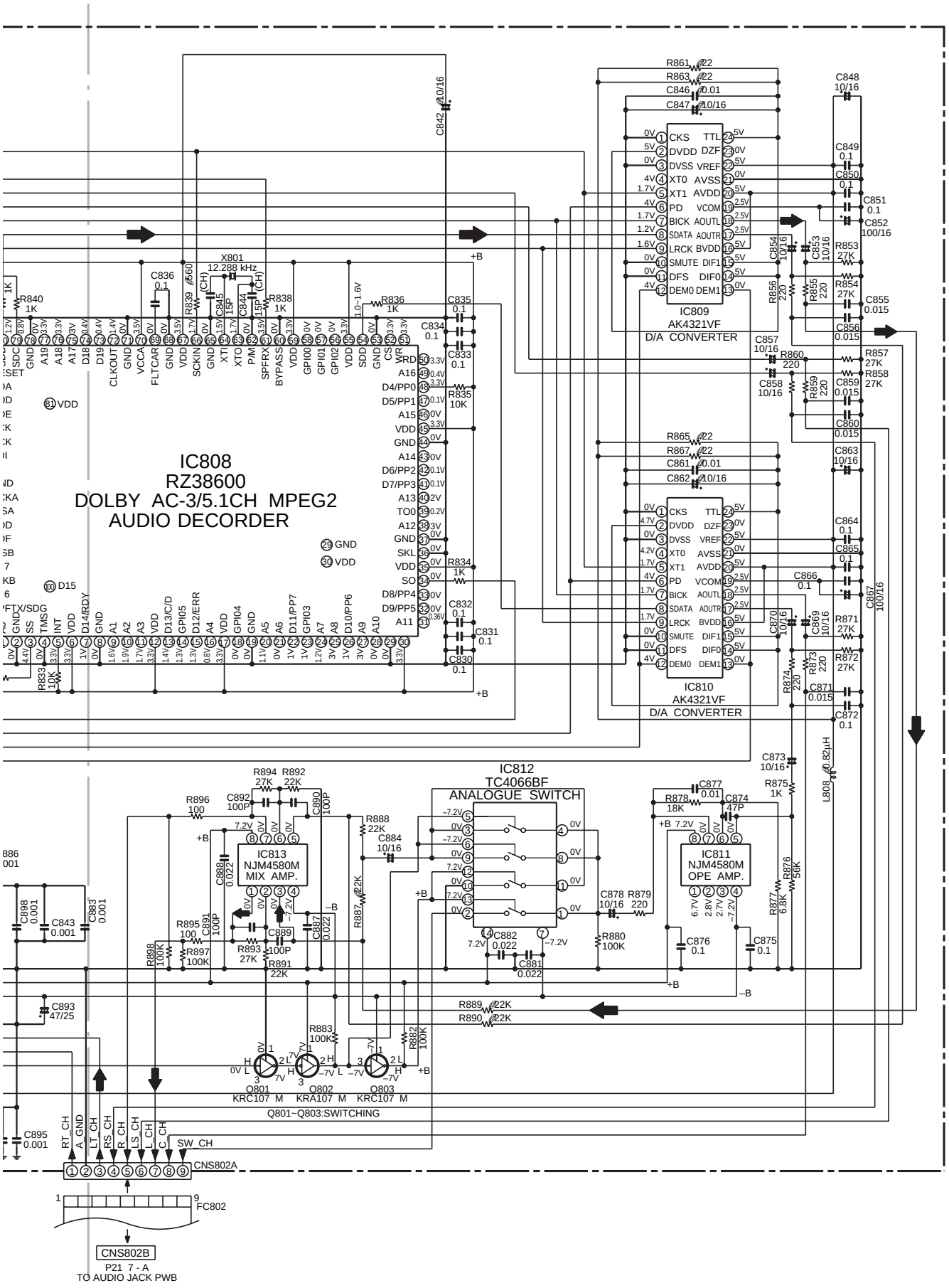
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (8/12)



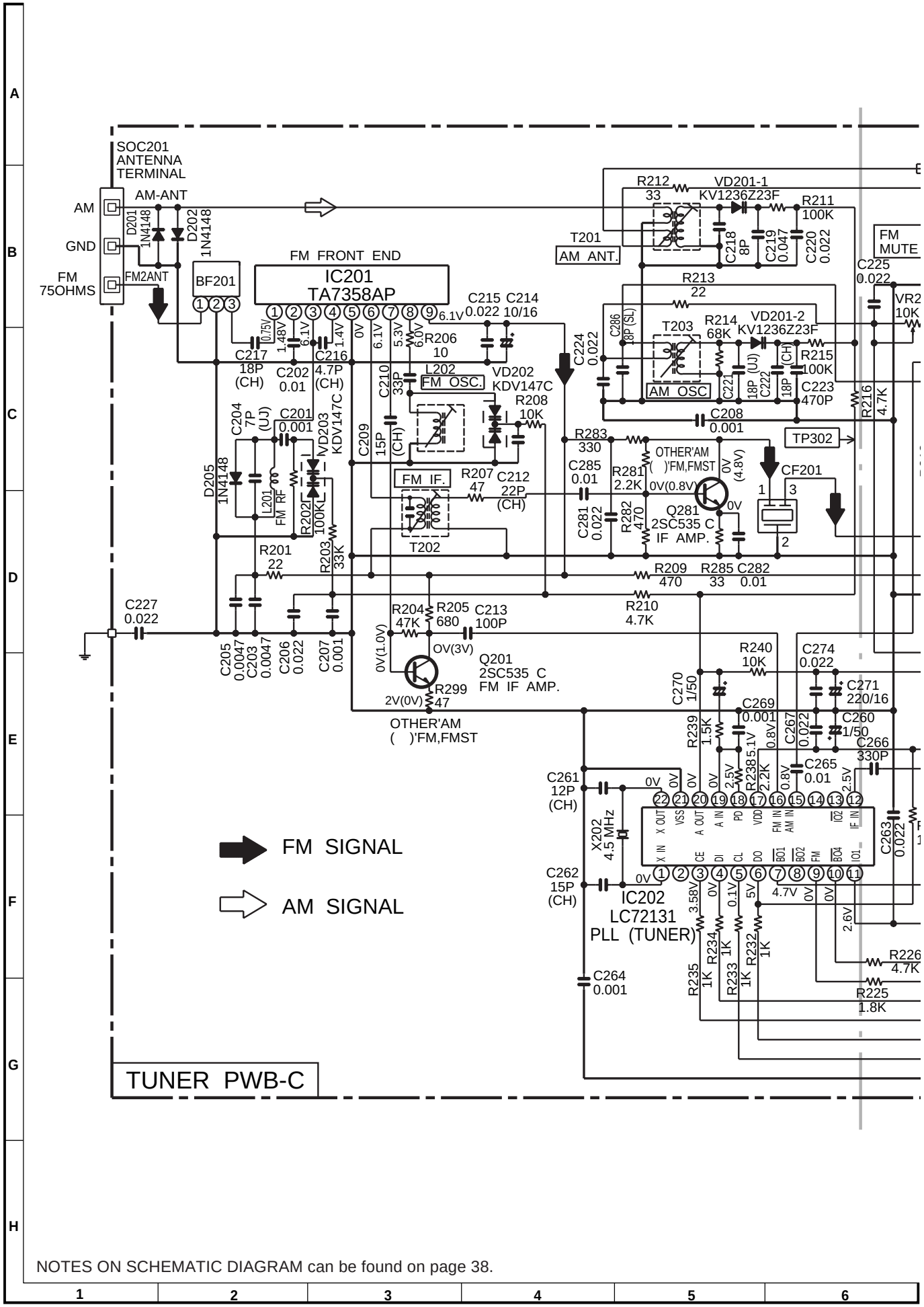
NOTES ON SCHEMATIC DIAGRAM can be found on page 38.

Figure 24 SCHEMATIC DIAGRAM (9/12)



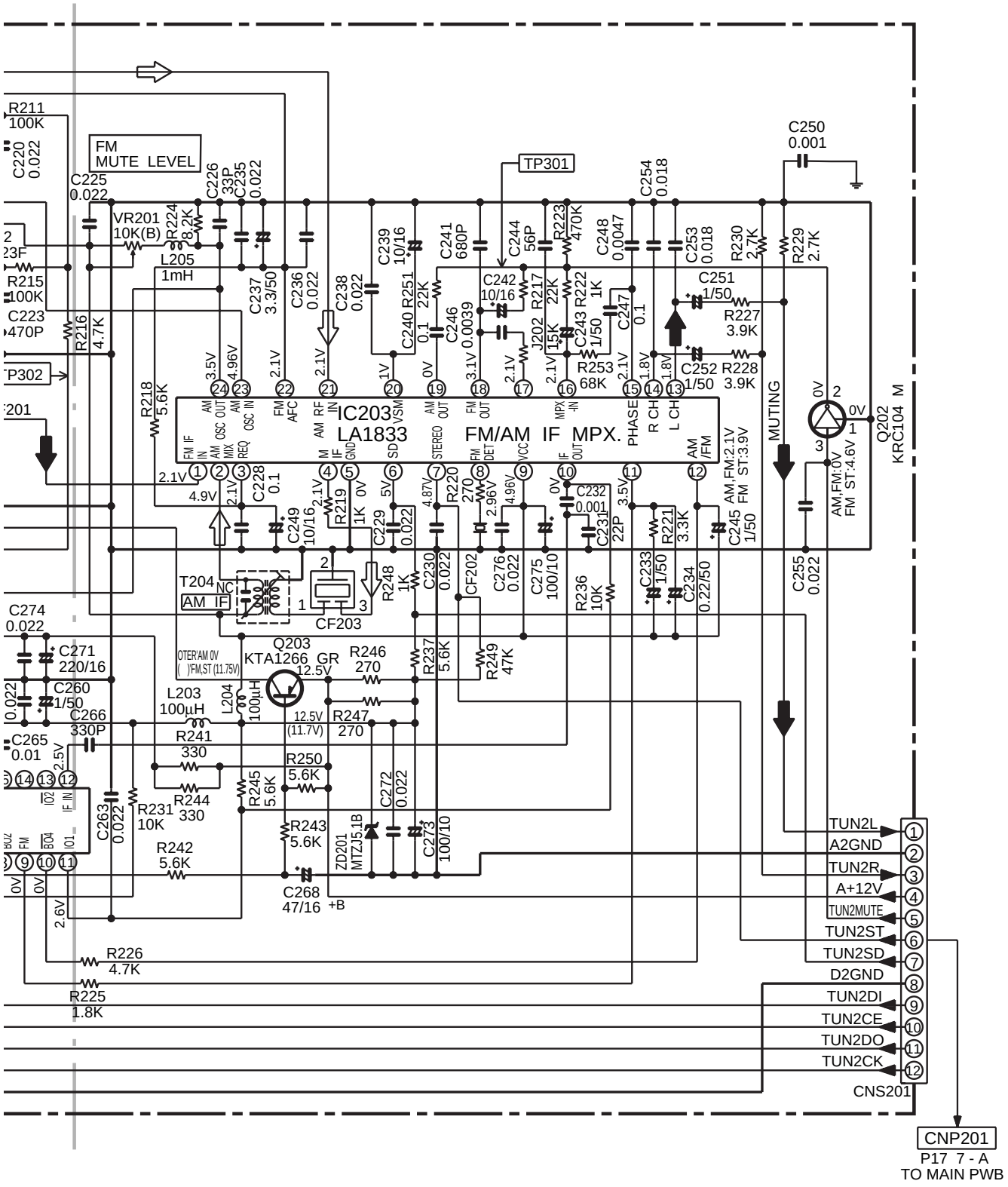
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (10/12)



NOTES ON SCHEMATIC DIAGRAM can be found on page 38.

Figure 26 SCHEMATIC DIAGRAM (11/12)



7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (12/12)

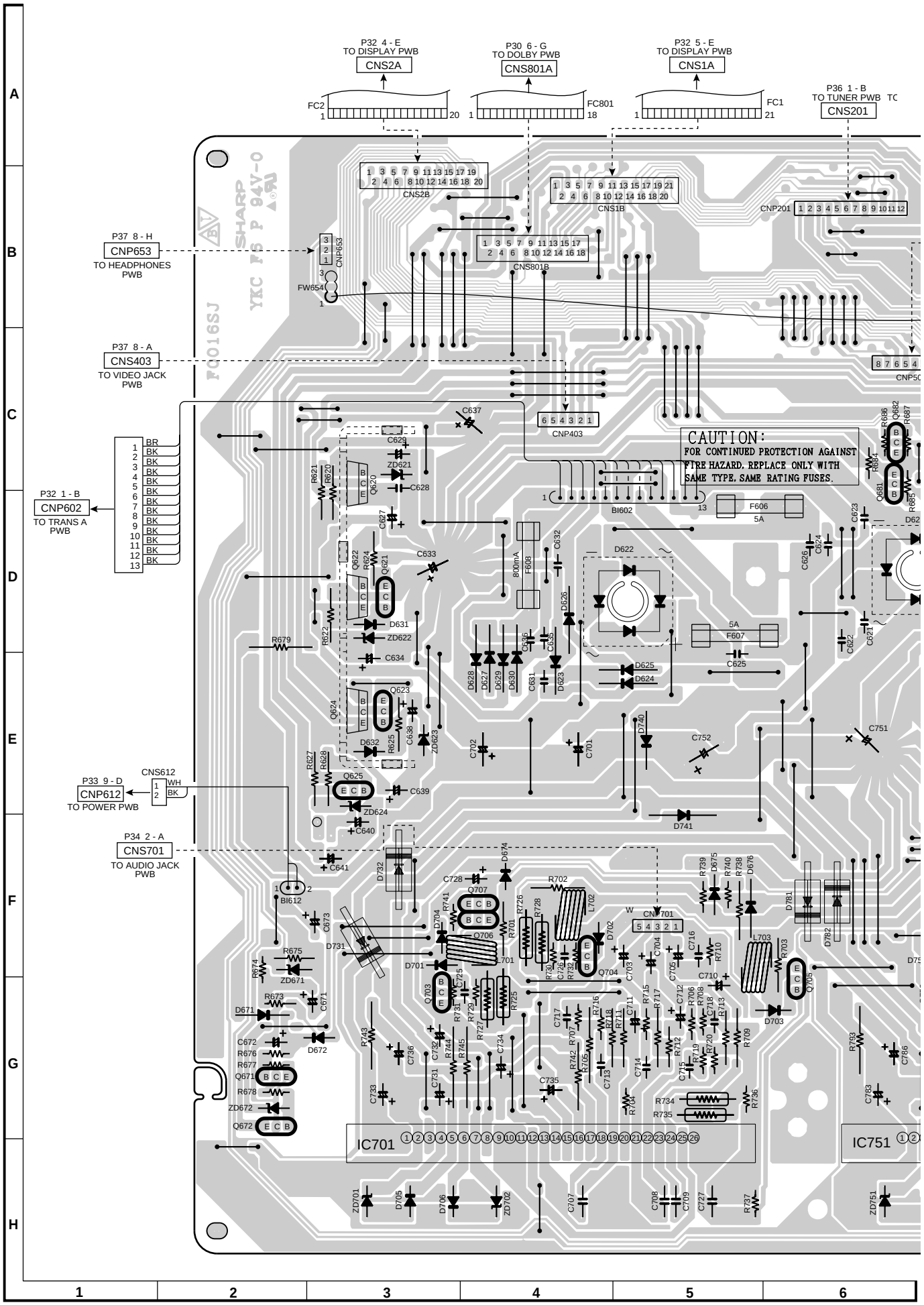
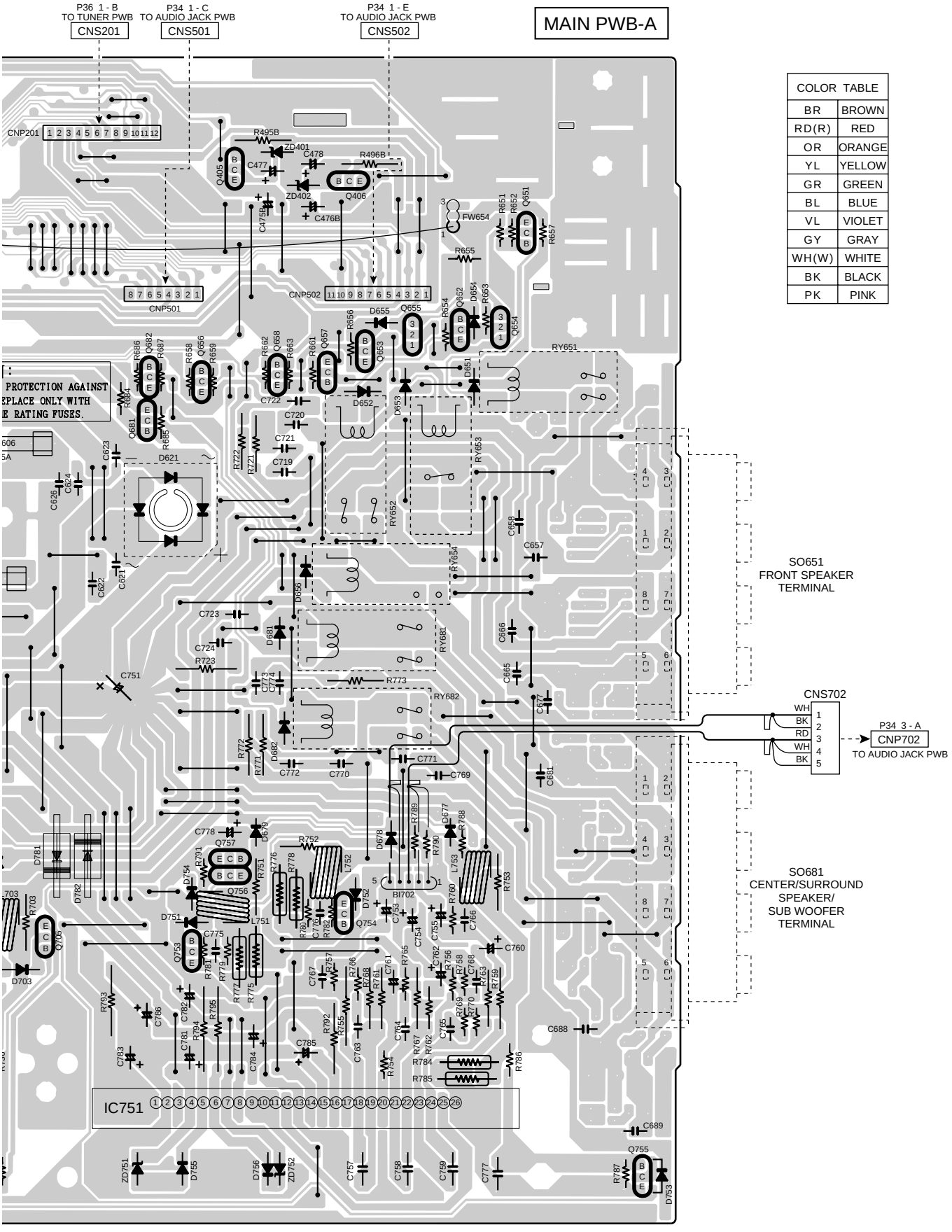


Figure 28 WIRING OF P.W.BOARD (1/10)



7	8	9	10	11	12

Figure 29 WIRING OF P.W.BOARD (2/10)

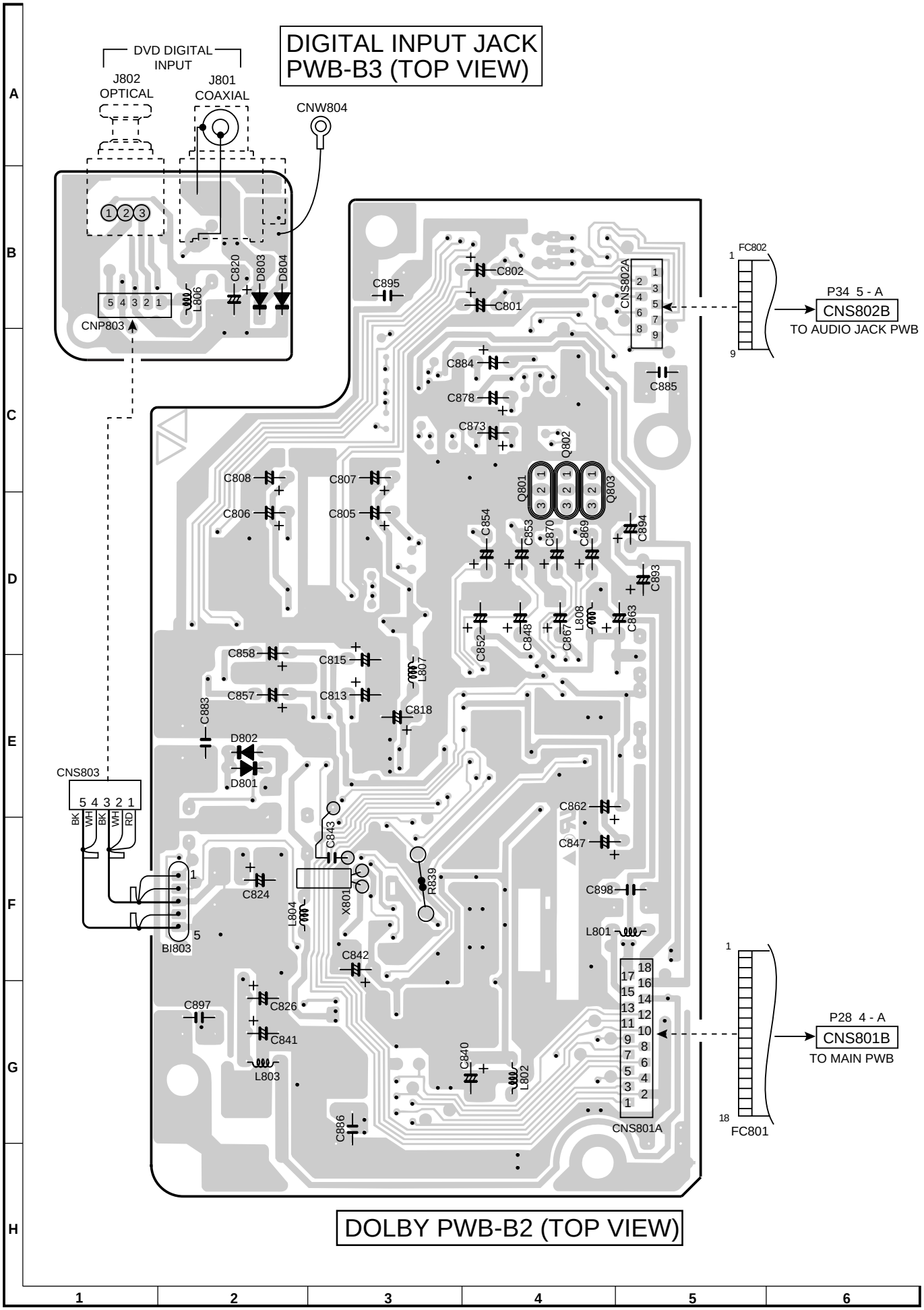
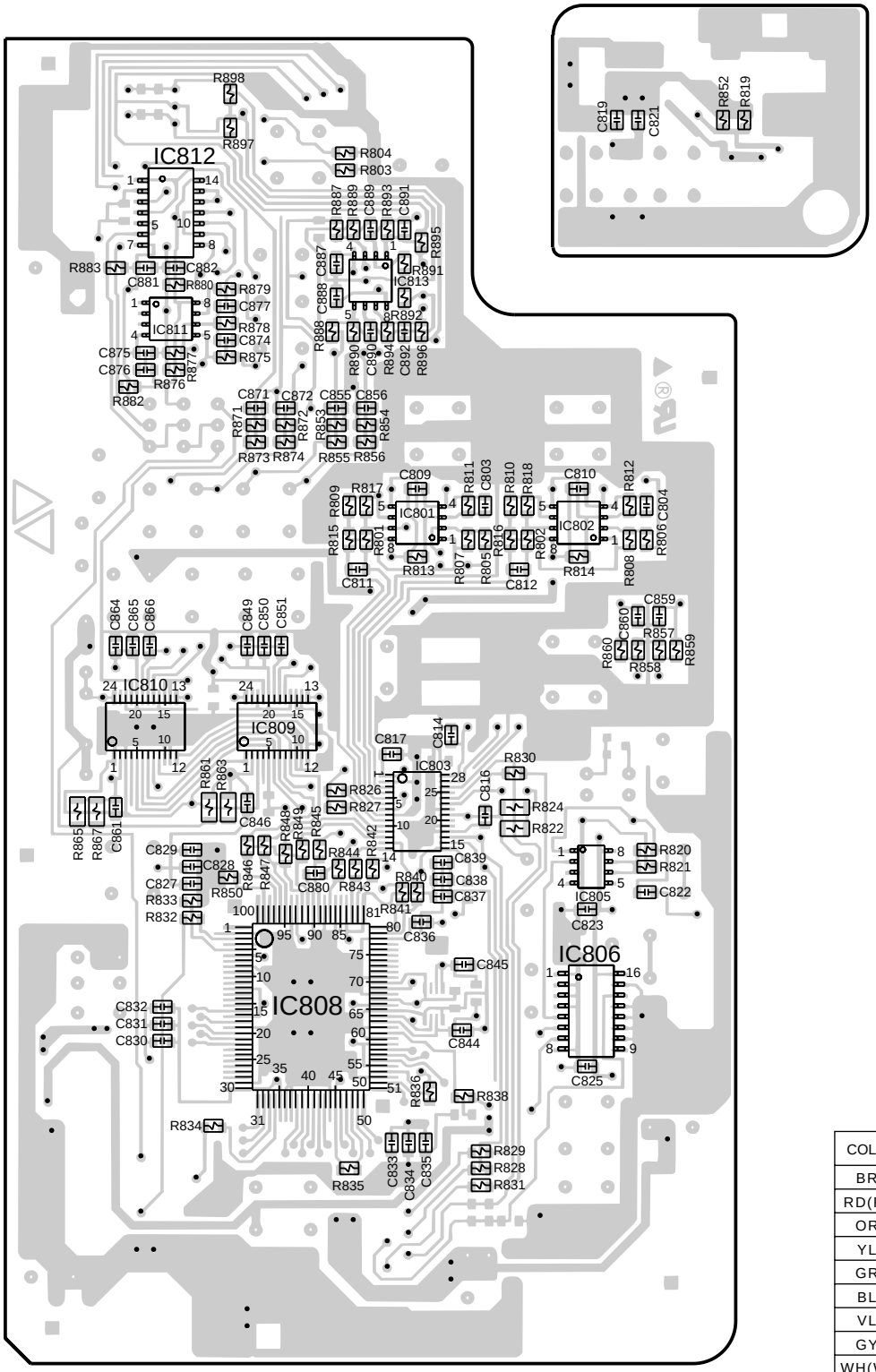


Figure 30 WIRING OF P.W.BOARD (3/10)

● : Through-hole where the top andbottom patterns are connected.

DIGITAL INPUT JACK
PWB-B3(BOTTOM VIEW)



DOLBY PWB-B2 (BOTTOM VIEW)

COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 31 WIRING OF P.W.BOARD (4/10)

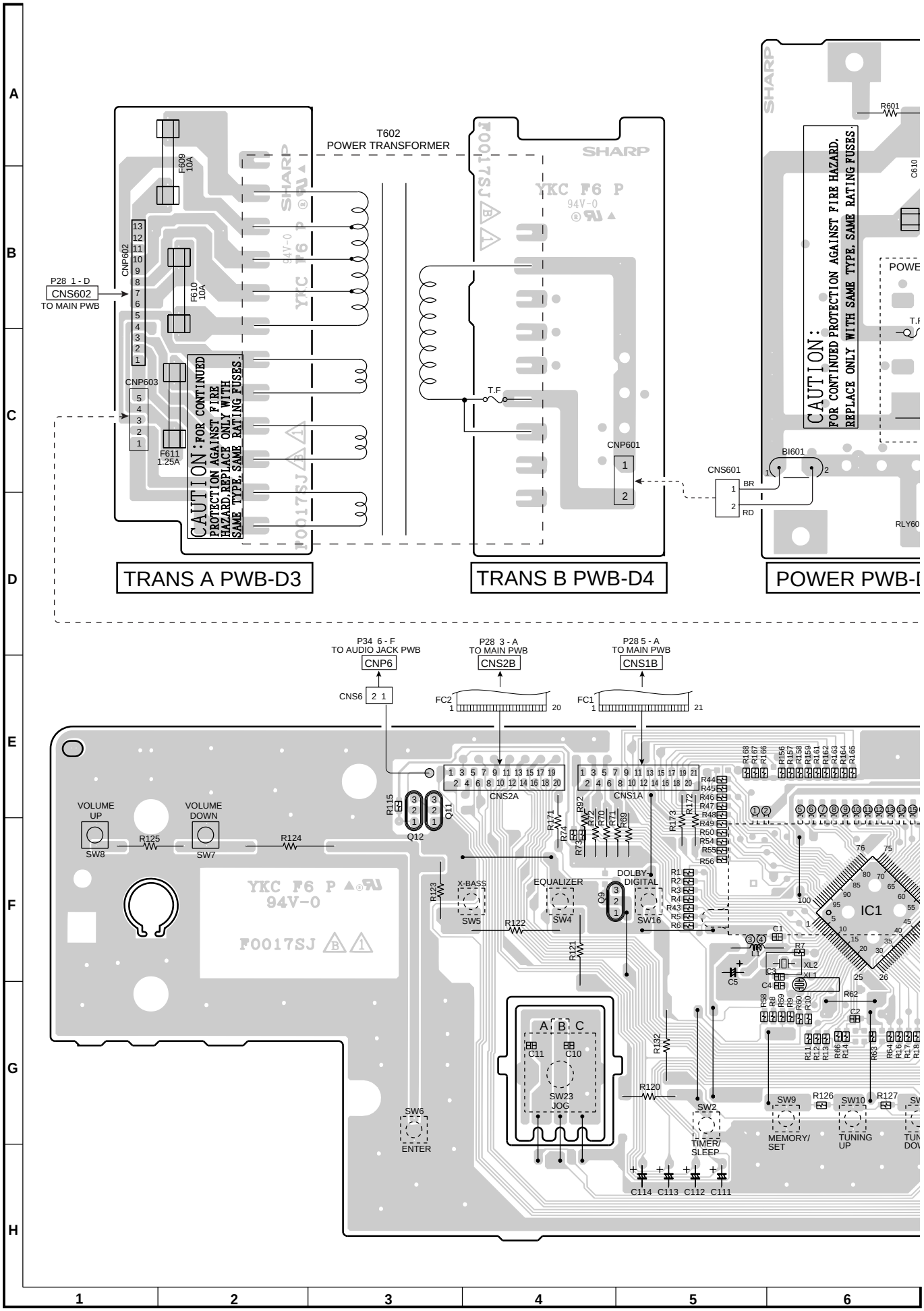
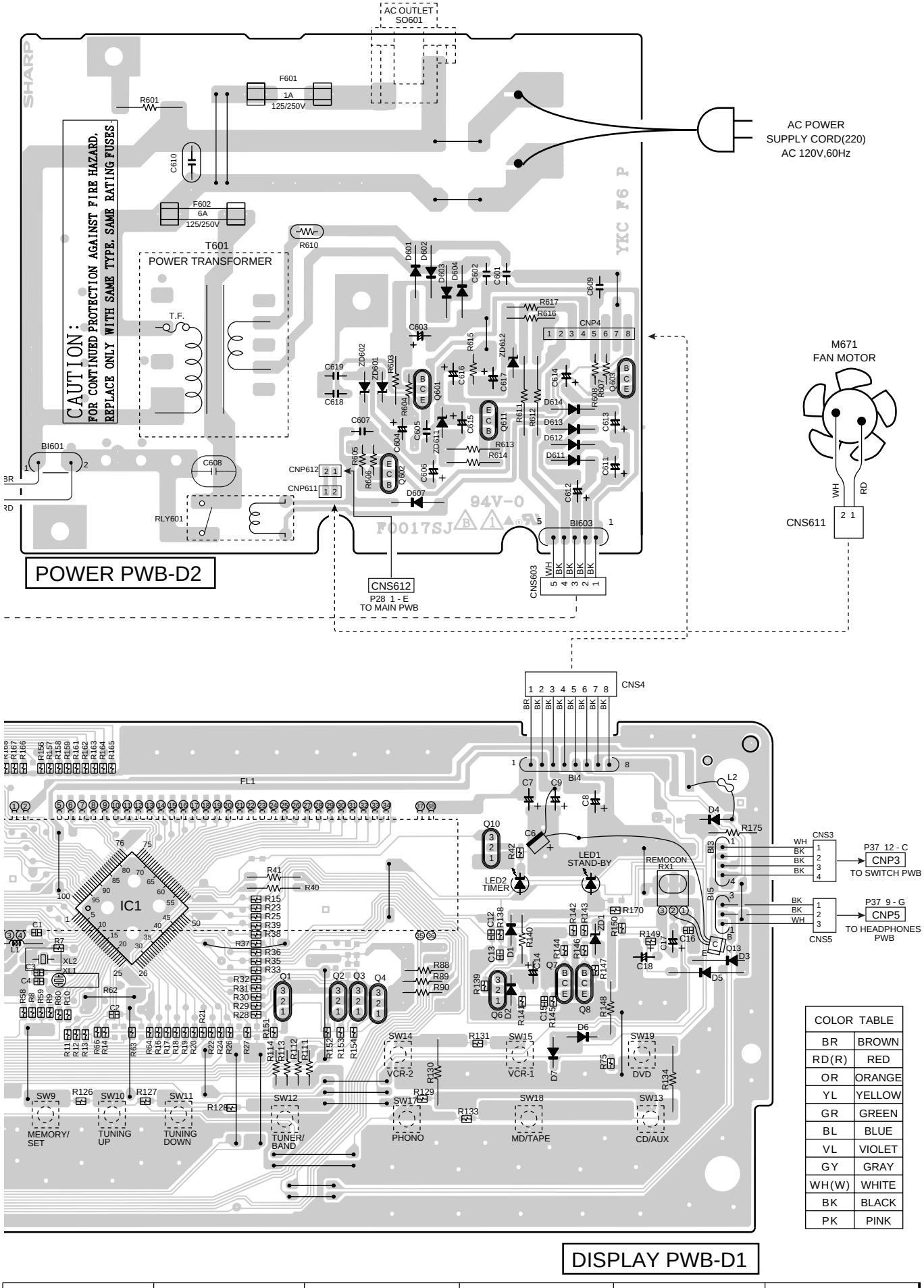


Figure 32 WIRING OF P.W.BOARD (5/10)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 33 WIRING OF P.W.BOARD (6/10)

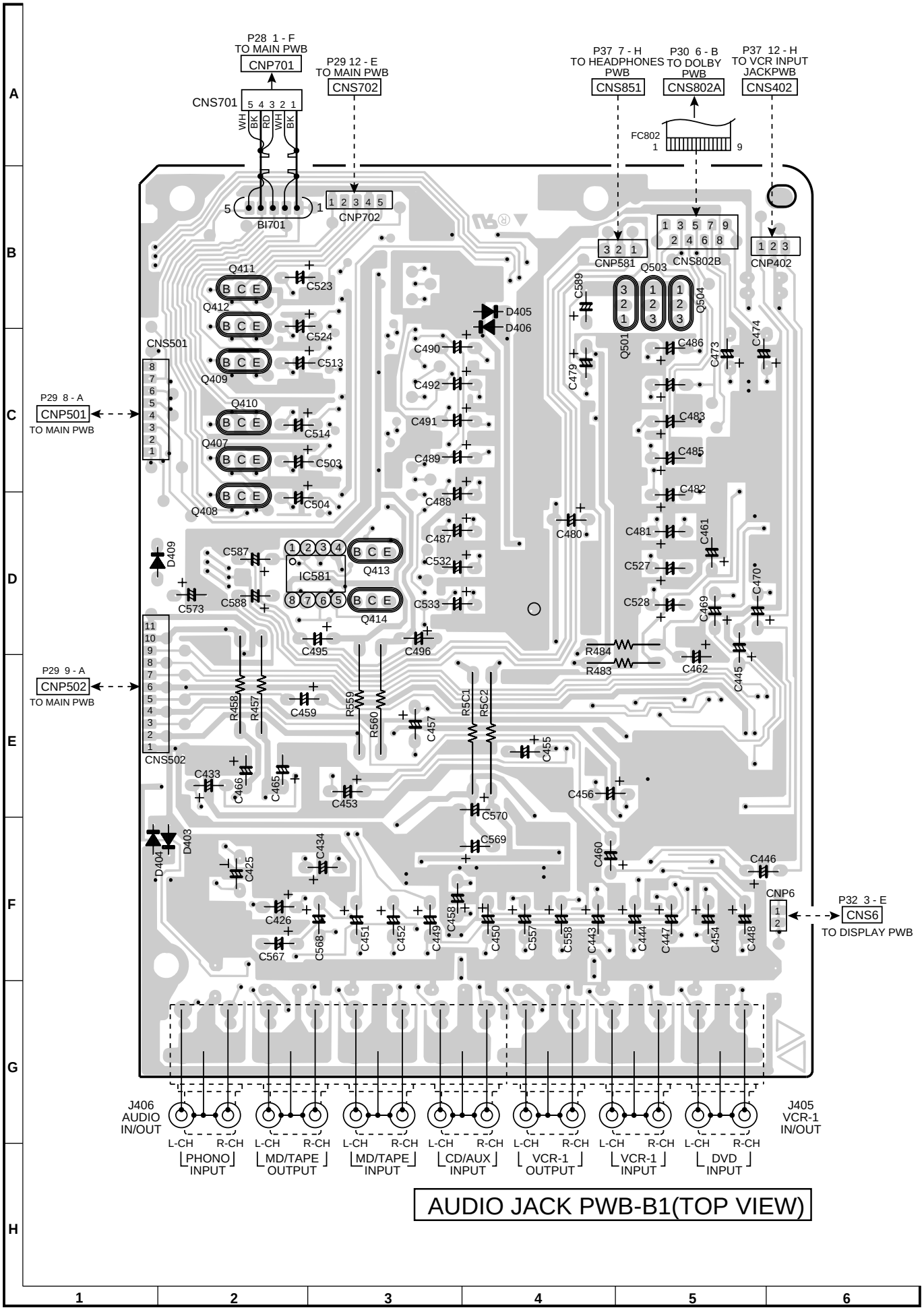
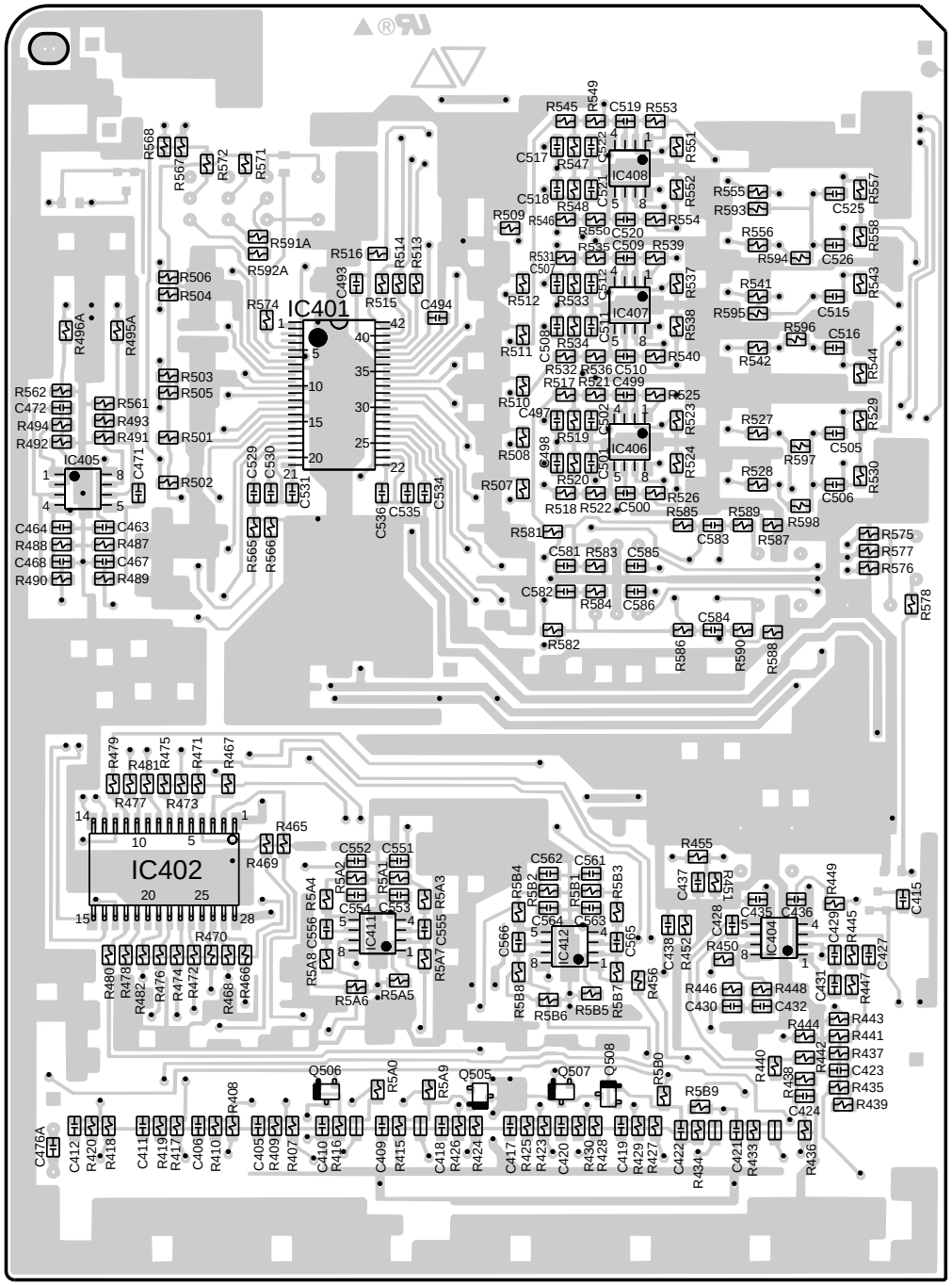


Figure 34 WIRING OF P.W.BOARD (7/10)

● : Through-hole where the top andbottom patterns are connected.



AUDIO JACK PWB-B1(BOTTOM VIEW)

COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 35 WIRING OF P.W.BOARD (8/10)

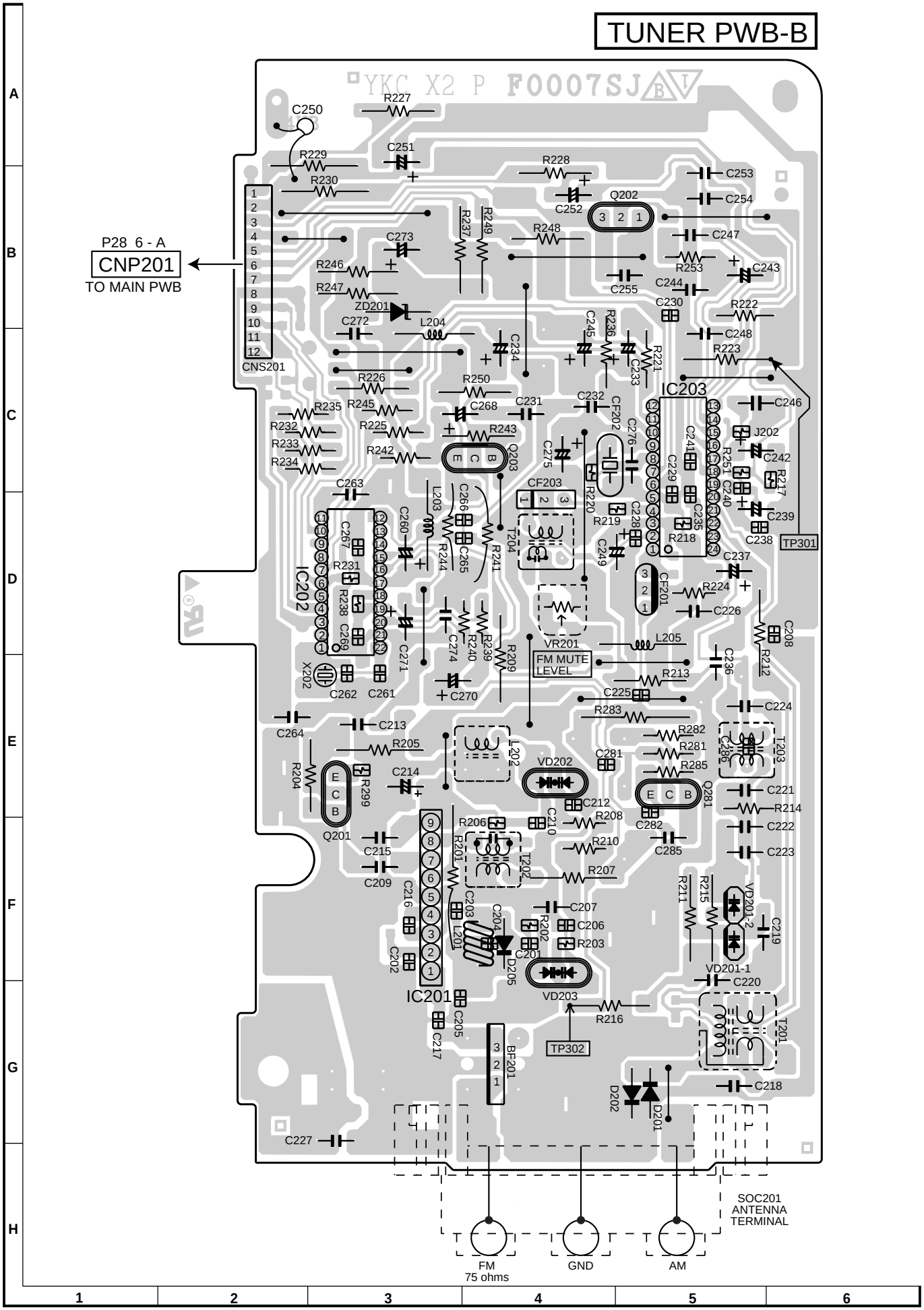
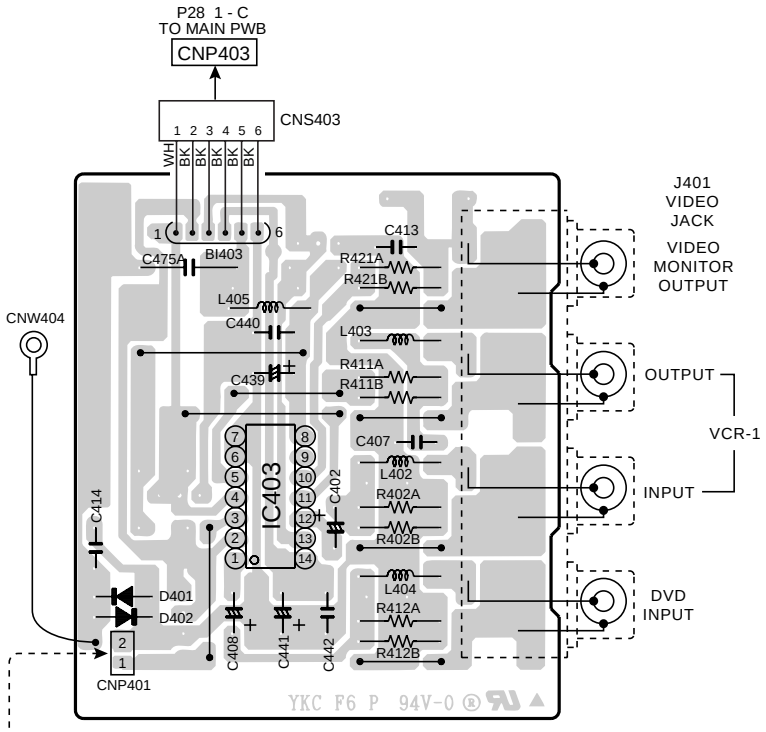
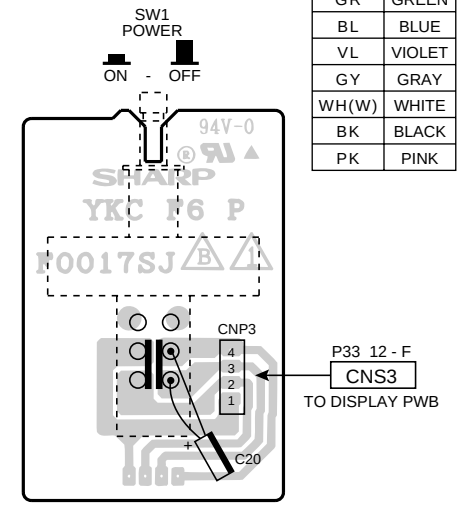


Figure 36 WIRING OF P.W.BOARD (9/10)

COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK



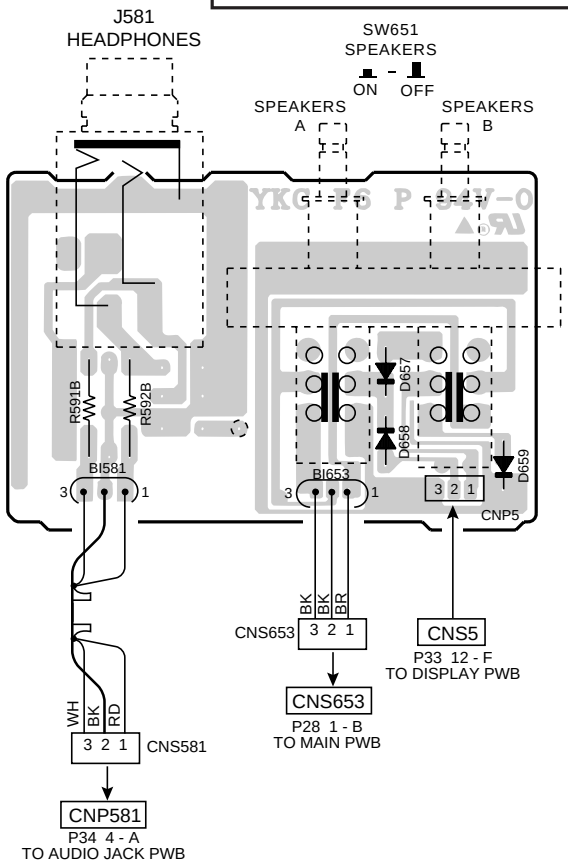
VIDEO JACK PWB-D5

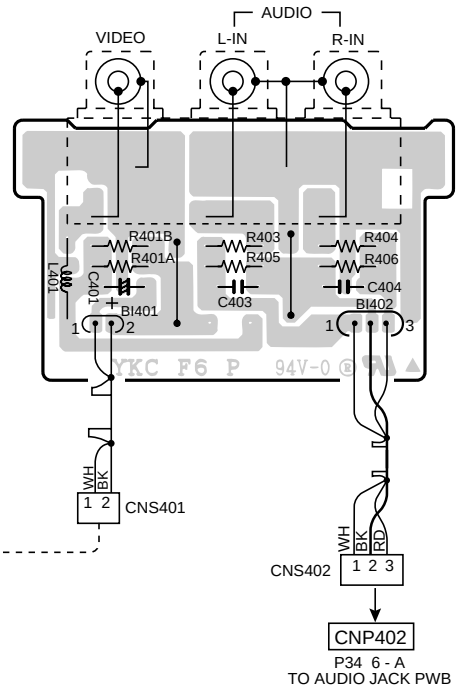


SWITCH PWB-D7

VCR INPUT JACK PWB-D8

HEADPHONES PWB-D6





7	8	9	10	11	12

Figure 37 WIRING OF P.W.BOARD (10/10)

NOTES ON SCHEMATIC DIAGRAM

• Resistor:
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.

• Capacitor:
To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
(CH), (TH), (RH), (UJ): Temperature compensation
(ML): Mylar type
(P.P.): Polypropylene type

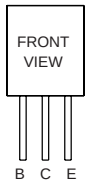
• Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

• The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
1. In the tuner section,
( ) indicates AM
< > indicates FM stereo
2. In the main section, VCR1.
3. In the power section, VCR1.

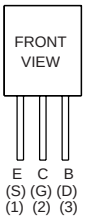
• Parts marked with “ ⚠ ” (⊏ = = = ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	POWER	ON—OFF
SW2	TIMER/SLEEP	ON—OFF
SW4	EQUALIZER	ON—OFF
SW5	X-BASS	ON—OFF
SW6	ENTER	ON—OFF
SW7	VOLUME DOWN	ON—OFF
SW8	VOLUME UP	ON—OFF
SW9	MEMORY/SET	ON—OFF
SW10	TUNING UP	ON—OFF
SW11	TUNING DOWN	ON—OFF

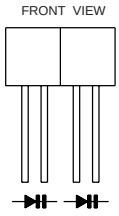
REF. NO	DESCRIPTION	POSITION
SW12	TUNER/BAND	ON—OFF
SW13	CD/AUX	ON—OFF
SW14	VCR-2	ON—OFF
SW15	VCR-1	ON—OFF
SW16	DOLBY DIGITAL	ON—OFF
SW17	PHONO	ON—OFF
SW18	MD/TAPE	ON—OFF
SW19	DVD	ON—OFF
SW23	JOG	ON—OFF
SW651	SPEAKERS A/B	ON—OFF



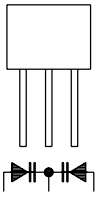
2SB1375
2SD2012



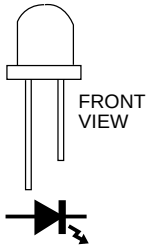
2SB562 C
2SC535 C
2SD468 C
KRA102 M
KRA107 M
KRC102 M
KRC104 M
KRC107 M
KTA1266 GR
KTA1270 Y
KTC3199 GR



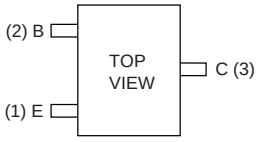
KV1236Z23



KDV147 C



L1154 HB



KRC231 S

Figure 38 TYPES OF TRANSISTOR AND LED

FUNCTION TABLE OF IC

IC1 RH-iX0004SJZZ: System Microcomputer (IX0004SJ) (1/2)

Pin No.	Port Name	Terminal Name	Input/ Output	Function
1	P00/TXD/SBO0	TUN_DI	Output	Data output terminal to the tuner PLL IC
2	P01/RXD/SBI0	TUN_DO	Input	Data input terminal from the tuner PLL IC
3	P02/STB0	TUNE_CK	Output	Clock output synchronized with the tuner PLL IC
4	P03/SBO1	TUN_CE	Output	Enable output for the tuner PLL IC "L" = OFF, "H" = ON
5	P04/SBI1	TUN_MUTE	Output	Tuner mute output terminal
6	P05/SBT1	TUN_SD	Input	Terminal for detecting the tuner broadcast reception mode "L" = During broadcast reception
7	P06/DK/ BUZZER	TUN_ST	Input	Input for detecting whether or not the tuner is receiving stereo radio signals "H" = MONO, "L" = STEREO
8	VDD	VDD	—	Microcomputer power supply +5V
9	OSC2	OSC2	Output	External oscillator terminel for the main clock f = 8.00 MHz
10	OSC1	OSC1	Input	External oscillator terminel for the main clock f = 8.00 MHz
11	VSS	VSS	—	Microcomputer power supply GND
12	XI	XI	Input	External oscillator terminel for the sub clock f = 32.768 kHz
13	XO	XO	Output	External oscillator terminel for the sub clock f = 32.768 kHz
14	MMOD	MMOD	Input	Memory mode select terminal
15	VREF-	VREF-	—	A/D convertor power supply GND
16-18	PA0/AN0-PA2/AN2	KEY1-KEY3	Input	Operation key input MAX-10 key
19	PA3/AN3	AREA	Input	Destination detection input. Operates as an A/D input port Detects the destination setting on the DC voltage when resetting.
20	PA4/AN4	SP_LEVEL	Input	Main speaker output level detection, input
21	PA5/AN5	MODEL	Input	Model detection input. Detects the model on DC voltage when resetting.
22	PA6/AN6	POSISTOR	Input	Input for detecting an increase in the power amplifier temperature
23*	PA7/AN7	—	—	Not used
24	VREF+	VREF+	—	A/D convertor power supply +5V
25	P07	ALC	Input	Power output ALC function ON/OFF control terminal
26	P27/$\overline{\text{RST}}$	RESET	Input	System reset, input
27	P10/TM0IO	FS_STB	Output	Function select IC strobe signal
28	P11/TM1IO	FS_DATA	Output	Function select IC control signal, output
29	P12/TM2IO	FS_CK	Output	Synchronous clock output to the function select IC
30	P13/TM3IO	V_LATCH	Output	Latched data output to the electronic volume IC Model 2000: Electronic volume IC enable, output
31	P14/TM4IO	V_CK	Output	Synchronous clock for the electronic volume IC
32	P15	V_DATA	Output	Data output to the electronic volume IC
33	P20/IRQ0	POWER	Input	Main case primary power switch, input "H" = ON, "L" = OFF
34	P21/SEN/IRQ1	SYS_STOP	Input	Power failure detection, input. Changes to the STOP mode when "L".
35	P22/IRQ2	AC3_SO	Input	ZR38600 serial data, input
36	P23/IRQ3	REMOCON	Input	Remote control signal, input
37	P24/IRQ4	JOG_UP	Input	Jog dial UP pulse, input
38	P25	JOG_DOWN	Input	Jog dial DOWN pulse, input
39	P30/SBO2	F_MUTE	Output	Front amplifier input, Mute output "H" = MUTE OFF, "L" = MUTE ON
40	P31/SBI2	R_MUTE	Output	Rear amplifier input, Mute output "H" = MUTE OFF, "L" = MUTE ON
41	P32/SBT2	C_MUTE	Output	Center amplifier input, Mute output "H" = MUTE OFF, "L" = MUTE ON
42	P50	SW_MUTE	Output	Woofer amplifier input, Mute output "H" = MUTE OFF, "L" = MUTE ON
43	P51	FA_PLAY	Output	Front 'A' speakers' protective relay control, output "H" = RLAY CLOSE, "L" = RLAY OPEN
44	P52	POW_SW	Output	Primary-side AC power ON/OFF relay control, output "H" = ON, "L" = OFF
45	P53	HP_MUTE	—	Headphones signal mute output
46	P54	R_RLAY	Output	Rear speaker protective relay control, output "H" = RLAY CLOSE, "L" = RLAY OPEN
47	P67/DGT17	C_RLAY	Output	Center speaker protective relay control, output "H" = RLAY CLOSE, "L" = RLAY OPEN

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 RH-iX0004SJZZ: System Microcomputer (IX0004SJ) (2/2)

Pin No.	Port Name	Terminal Name	Input/ Output	Function
48	P66/DGT16	SW_RLAY	Output	Woofer speaker protective relay control, output "H" = RLAY CLOSE, "L" = RLAY OPEN
49	P65/DGT15	SPSWA	Input	Headphone plug insertion detection, input, and 'A' speakers' switch input
50	P64/DGT14	SPSWB	Input	'B' speakers' switch input
51	P63/DGT13	PROTECT	Input	power amplifier protect mode, input
52	P62/DGT12	FAN	Output	Air-cooling fan control, output "L" = OFF, "H" = ON
53	P61/DGT11	LED1	Output	Timer stand-by ON LED control, output "L" = Timer OFF, "H" = Timer ON
54	P60/DGT9	G1	Output	VFD grid output
55	P41/DGT8	G2	Output	VFD grid output
56	P40/SEG0/DGT7	G3	Output	VFD grid output
57-63	P77/SEG1/DGT6- P71/SEG7/DGT0	G4-G10	Output	VFD grid output
64	P70/SEG8	S1	Output	VFD anode output
65-72	P87/SEG8- P80/SEG15	S2-S9	Output	VFD anode output
73-79	P97/SEG16 P91/SEG22	S10-S16	Output	VFD anode output
80*	P90/SEG23	N.C	—	Not used
81*-83*	PC2/SEG24- PC0/SEG26	N.C	—	Not used
84*	PB7/SEG27	DAPD	Output	D/A convertor ON/OFF control, output "L" = STANDBY, "H" = ON
85	PB6/SEG28	AAPD	Output	A/D convertor ON/OFF control, output "L" = STANDBY, "H" = ON
86	PB5/SEG29	AC3_RES	Output	ZR38600 reset, output
87	PB4/SEG30	AC3_SS	Output	ZR38600 slave, output
8	PB3/SEG31	AC3_SI	Output	ZR38600 serial data, output
89	PB2/SEG32	D_SEL	Output	Digital function input select terminal "L" = Digital 2, "H" = Digital 1
90	PB1/SEG33	AC3_SCK	Output	Synchronous clock output to the ZR38600
91	PB0/SEG34	SW_ON	Output	Sub woofer ON/OFF, output
92*	PD7/SEG35	PRO_ENA	Output	Pro Logic IC enable, output "L" = OFF, "H" = ON
93*	PD6/SEG36	PRO_DI	Output	Data output to the Pro Logic IC
94	PD5/SEG37	PRO_CK	Output	Synchronous clock output to the Pro Logic IC
95,96	PD4/SEG38, PD3/SEG39	V_SW1, V_SW2	Output	Video input/output select switch control signal
97	PD2/SEG40	V_MUTE	Output	Video output mute signal
98,99	PD1/SEG41,	DEM0,DEM1	Output	D/A convertor de-emphasas filter control, output
100	VPP	VPP	—	Not used

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC808 VHiZR38600/-1: DOLBY AC-3/5.1CH MPEG2 AUDIO DECORDER (ZR38600) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1*	A0	Output	Address bus. The address bus is always active.
2	GND	—	Ground pin
3	SS_	Input	Serial host interfase: Slave select input (SPI)
4	TMS	Input	ICE interfase mode selection (TAG)
5	INT_	Input	External interrupt input. The interrupt signal is valid when it is asserted for 2XTI cycles or longer.
6	VCC	—	Used to connect a power supply of +3.3V ±5%
7*	D14/RDY	Input/Output	Data bus
8	GND	—	Ground pin
9*	A1	Output	Address bus. The address bus is always active.
10*	A2	Output	Address bus. The address bus is always active.
11*	A3	Output	Address bus. The address bus is always active.
12	VCC	—	Used to connect a power supply of +3.3V ±5%
13*	D13/C/D_	Input/Output	Data bus
14*	GPIO5	Input/Output	General-purpose I/O pin
15*	D12/ERR	Input/Output	Data bus
16*	A4	Output	Address bus. The address bus is always active.
17	VCC	—	Used to connect a power supply of +3.3V ±5%
18*	GPIO4	Input/Output	General-purpose I/O pin
19	GND	—	Ground pin
20*	A5	Output	Address bus. The address bus is always active.
21*	A6	Output	Address bus. The address bus is always active.
22*	D11/PP7	Input/Output	Data bus
23*	GPIO3	Input/Output	General-purpose I/O pin
24*	A7	Output	Address bus. The address bus is always active.
25*	A8	Output	Address bus. The address bus is always active.
26*	D10/PP6	Input/Output	Data bus
27*	A9	Output	Address bus. The address bus is always active.
28*	A10	Output	Address bus. The address bus is always active.
29	GND	—	Ground pin
30	VCC	—	Used to connect a power supply of +3.3V ±5%
31*	A11	Output	Address bus. The address bus is always active.
32*	D9/PP5	Input/Output	Data bus
33*	D8/PP4	Input/Output	Data bus
34	SO	Output	Serial host interfase: Serialdata output (SPI)
35	VCC	—	Used to connect a power supply of +3.3V ±5%
36	GND	—	Ground pin
37	GND	—	Ground pin
38*	A12	Output	Address bus. The address bus is always active.
39*	TDO	Output	ICE interfase data output (JAG)
40*	A13	Output	Address bus. The address bus is always active.
41*	D7/PP3	Input/Output	Data bus
42*	D6/PP2	Input/Output	Data bus
43*	A14	Output	Address bus. The address bus is always active.
44	GND	—	Ground pin
45	VCC	—	Used to connect a power supply of +3.3V ±5%
46*	A15	Output	Address bus. The address bus is always active.
47*	D5/PP1	Input/Output	Data bus
48	D4/PP0	Input/Output	Data bus
49*	A16	Output	Address bus. The address bus is always active.
50*	RD_	Input/Output	Read strobe
51*	WR_	Input/Output	Write strobe
52*	CS_	Input/Output	Chip select
53	GND	—	Ground pin

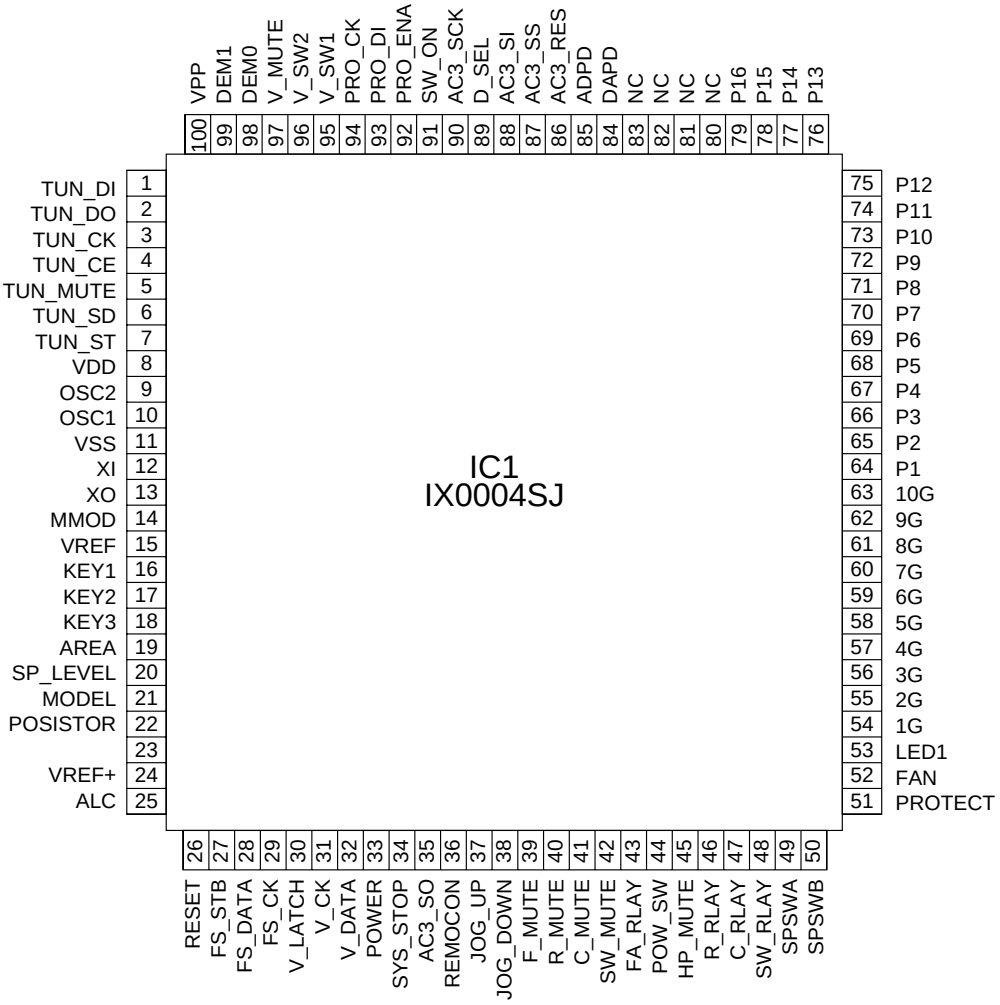
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC808 VHiZR38600/-1: DOLBY AC-3/5.1CH MPEG2 AUDIO DECORDER (ZR38600) (2/2)

Pin No.	Terminal Name	Input/Output	Function
54	SDD	Output	Data output for serial ports B, C and D
55	VCC	—	Used to connect a power supply of +3.3V ±5%
56*	GPIO2	Input/Output	General-purpose I/O pin
57*	GPIO1	Input/Output	General-purpose I/O pin
58*	GPIO0	Input/Output	General-purpose I/O pin
59	VCC	—	Used to connect a power supply of +3.3V ±5%
60	GND	—	Ground pin
61	SPFRX	Input	Digital audio interface input terminal
62	P/M	Input	Parallel port/memory port mode setting pin
63	XTO	Output	Crystal oscillator input/output terminal
64	XTI	Input	Crystal oscillator input/output terminal
65	GND	—	Ground pin
66	SCKIN	Input/Output	Group B serial port clock input/output.
67	VCC	—	Used to connect a power supply of +3.3V ±5%
68	GNDA	—	Ground pin
69	FLTCAP	Input	Internal PLL circuit terminal for connecting a capacitor
70	VCCA	—	Used to connect a power supply of +3.3V ±5%
71	GND	—	Ground pin
72*	CLKOUT	Output	Data bas clock output
73*	D19	Input/Output	Data bus
74*	D18	Input/Output	Data bus
75*	A17	Output	Address bus. The address bus is always active.
76*	A18	Output	Address bus. The address bus is always active.
77*	A19	Output	Address bus. The address bus is always active.
78	GND	—	Ground pin
79	SDC	Output	Data output for serial ports B, C and D
80	SDB	Output	Data output for serial ports B, C and D
81	VCC	—	Used to connect a power supply of +3.3V ±5%
82	RESET	Input	Reset input. Resetting is executed from the specified status and address by the reset signal.
83	SDA	Input	Data input for serial ports A, E and F
84	VCC	—	Used to connect a power supply of +3.3V ±5%
85	SDE	Input	Data input for serial ports A, E and F
86	TCK	Input	ICE interface clock (JTAG)
87	SCK	Input	Serial host interfase: Clockinput (SPI)
88	TDI	Input	ICE interfase data input (JTAG)
89	SI	Input	Serial host interfase: Serialdata input (SPI)
90	GND	—	Ground pin
91	SCKA	Input/Output	Group A serial port clock input /output
92	WSA/FSA	Input/Output	Group A serial port (for input) word selection or frame synchronous input/output
93	VCC	—	Used to connect a power supply of +3.3V ±5%
94	SDF	Input	Data input for serial ports A, E and F
95	WSB	Input/Output	Word selection input/output for the group B serialport
96*	D17	Input/Output	Data bus
97	SCKB	Input/Output	Grop B serial port clock input/output
98*	D16	Input/Output	Data bus
99	SPFTX/SDG	Output	Serial port G data output digital audio interface output terminal
100*	D15	Input/Output	Data bus

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 RH-iX0004SJZZ: System Microcomputer (IX0004SJ)



IC203 VHiLA1833//-1: FM/AM IF MPX. (LA1833)

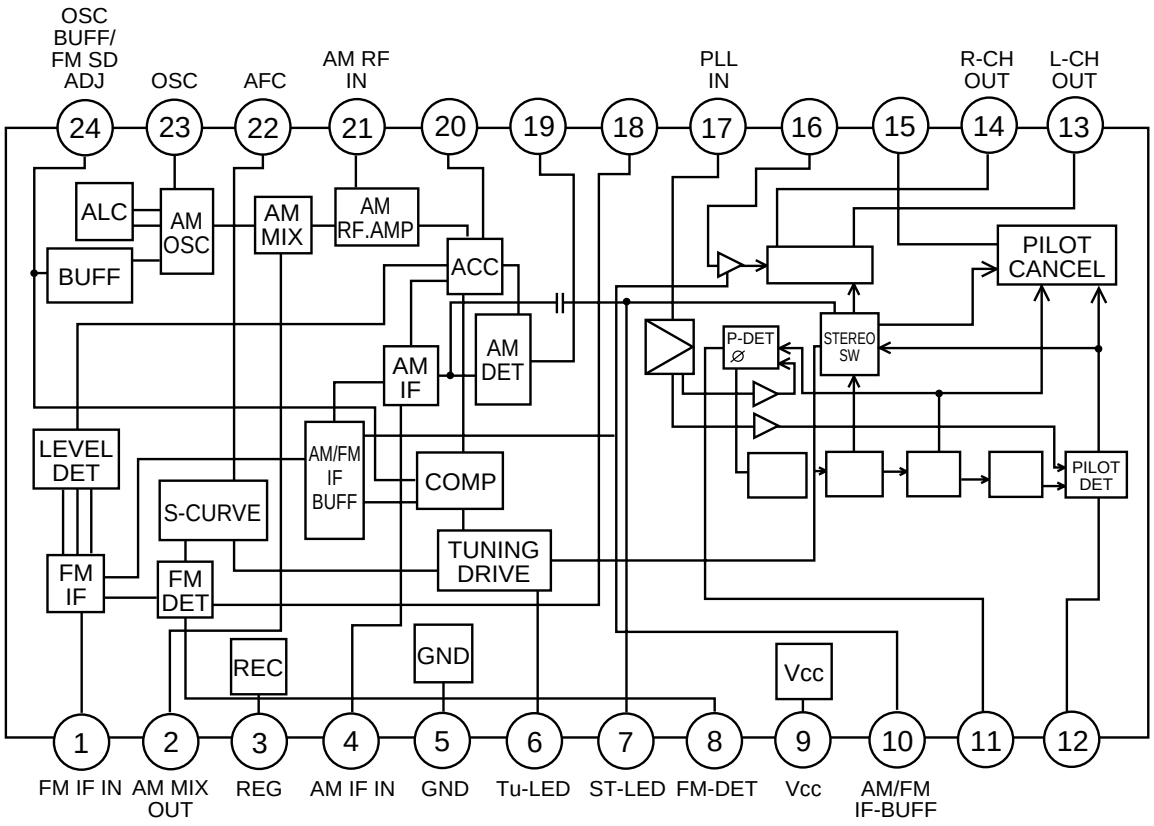
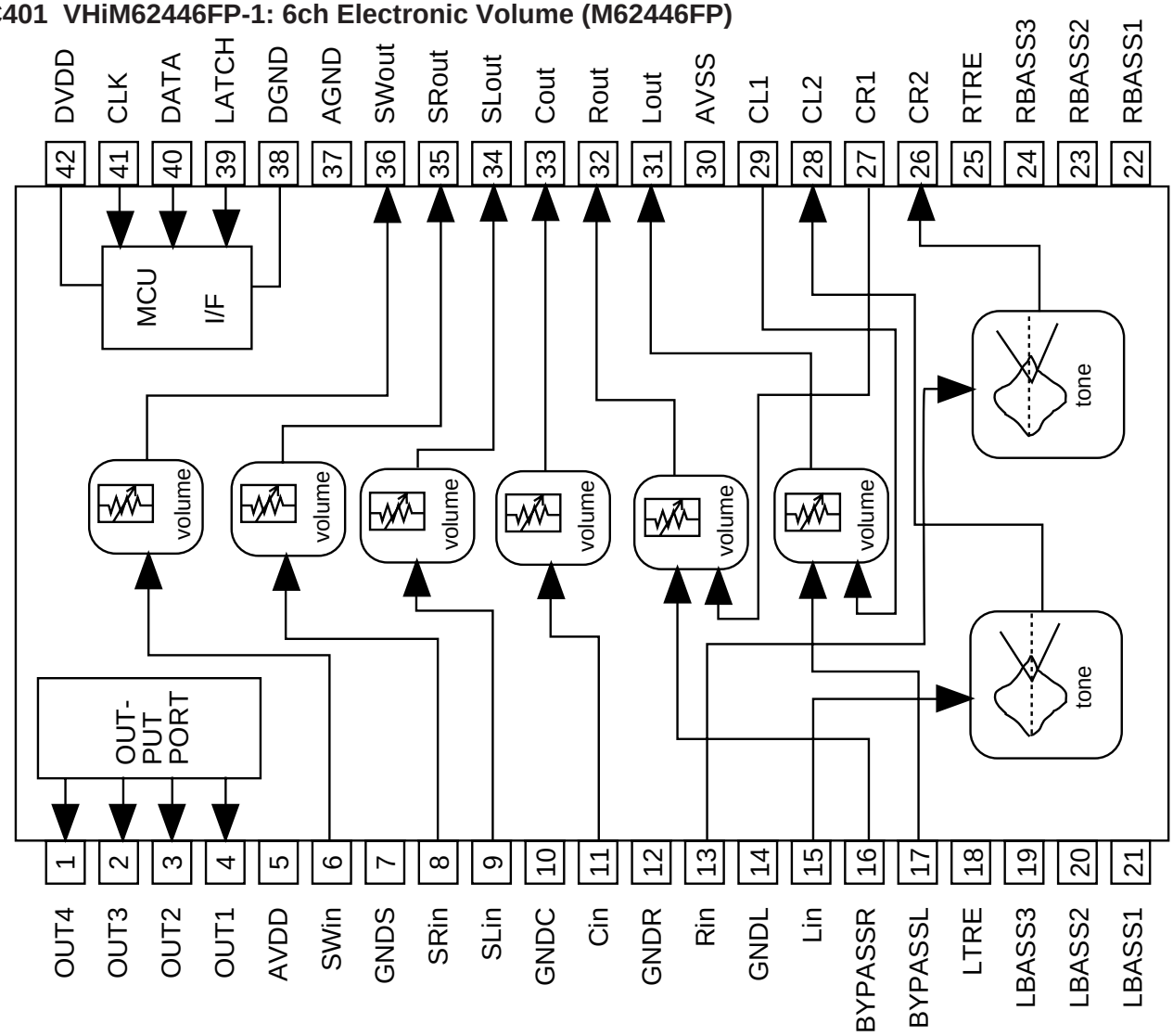


Figure 43 BLOCK DIAGRAM OF IC

IC401 VHiM62446FP-1: 6ch Electronic Volume (M62446FP)



IC402 VHiTC9273F/-1: Function Switch (TC9273F)

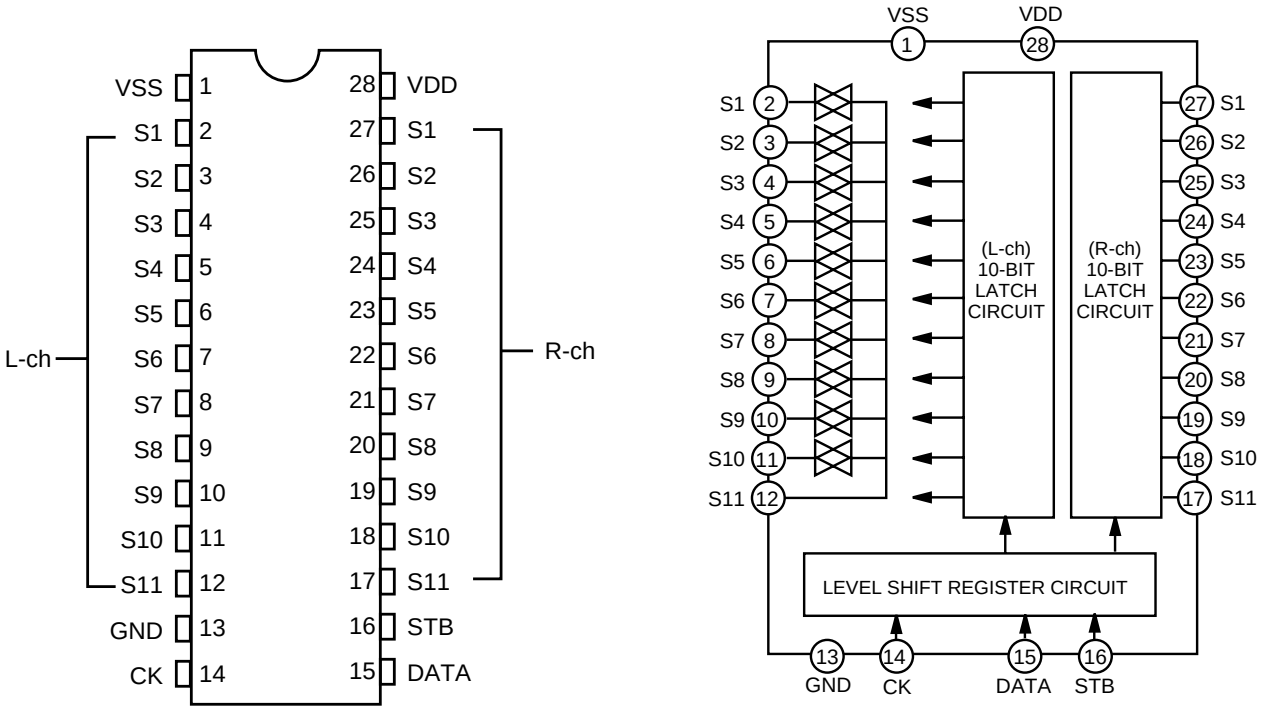
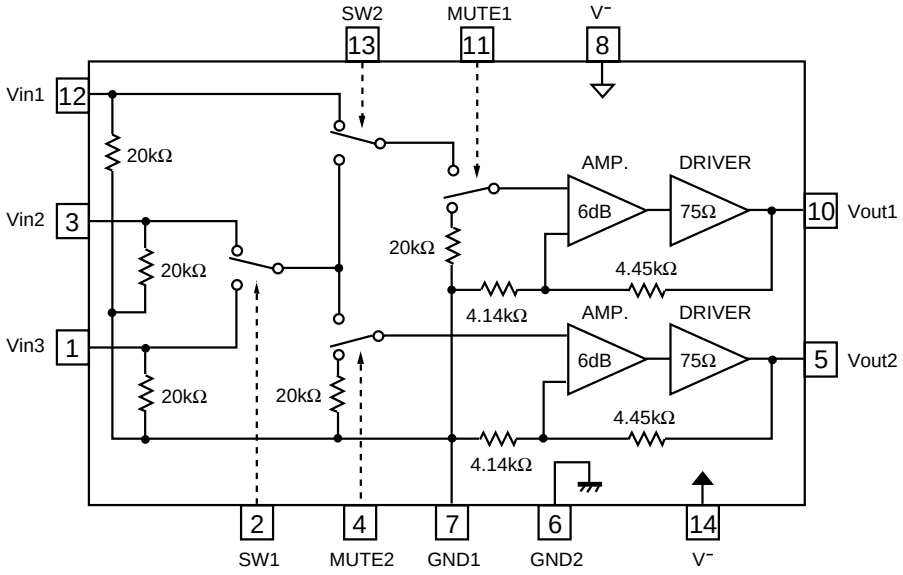


Figure 44 BLOCK DIAGRAM OF IC

IC403 VHiNJM2279D-1: Video Switch (NJM2279D)



IC803 VHiAK4520A/-1: 20bit 2ch A/D,D/A Converter (AK4520A)

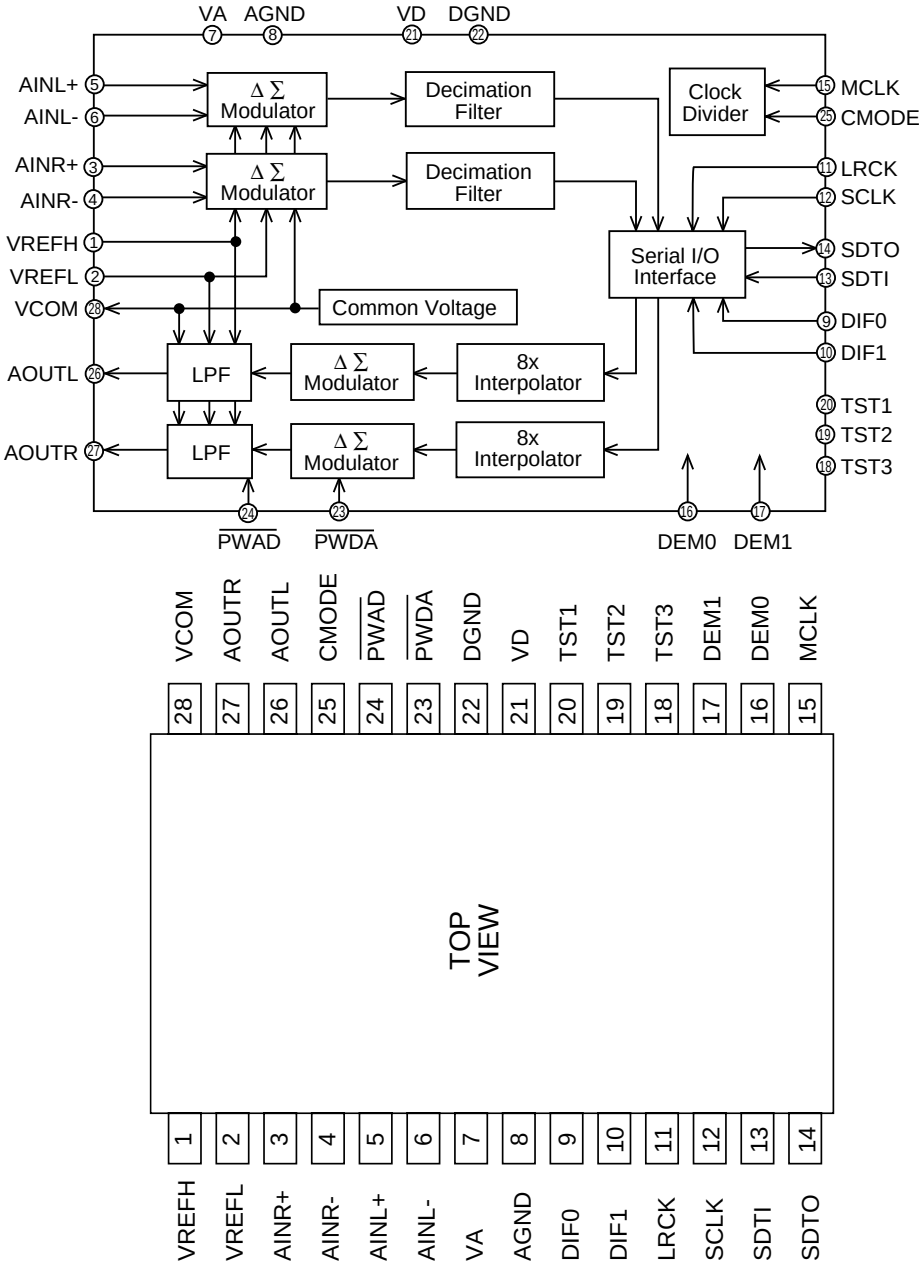
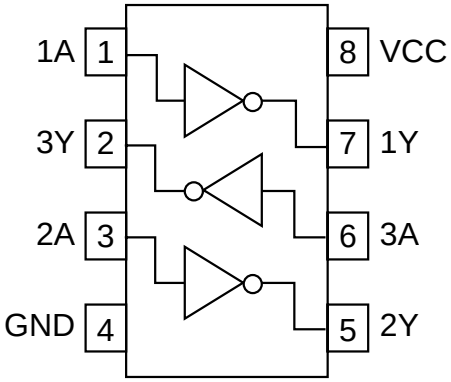
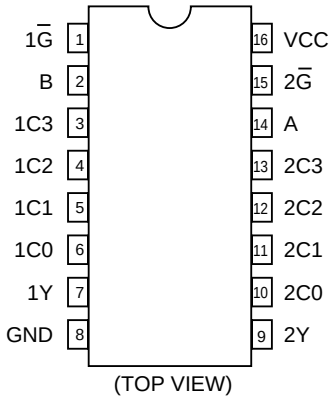


Figure 45 BLOCK DIAGRAM OF IC

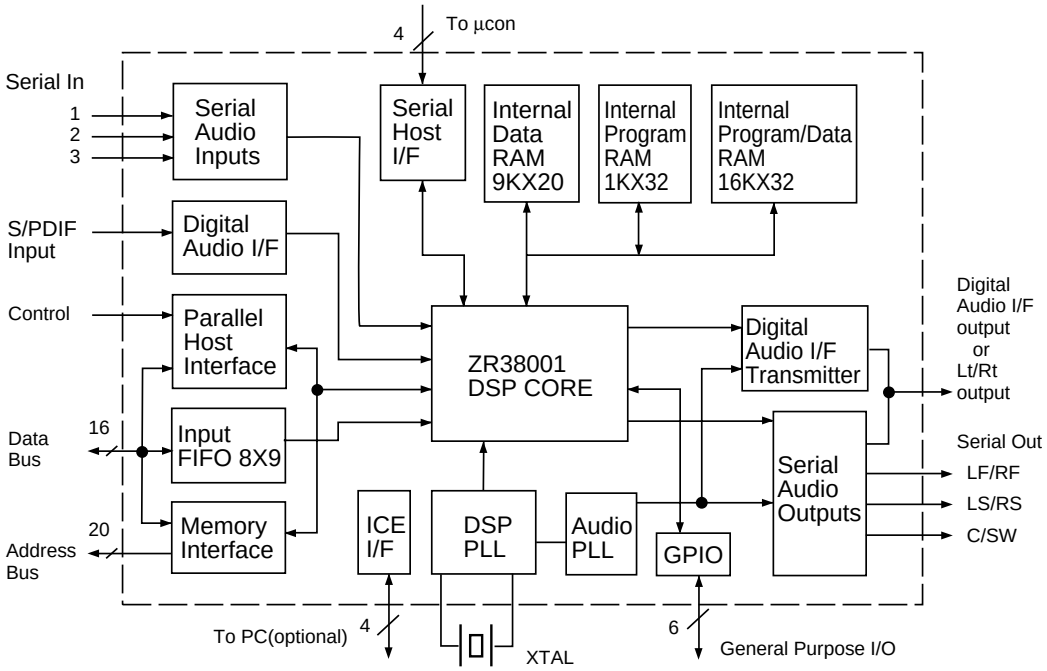
IC805 VHiTC7WU04F/-1: Inverter (TC7WU04F)



IC806 VHi74HC153F-1: Inverter (74HC153F)



IC808 VHiZR38600/-1: Dolby AC-3/5.1ch MPEG2 Audio Decorder (ZR38600)



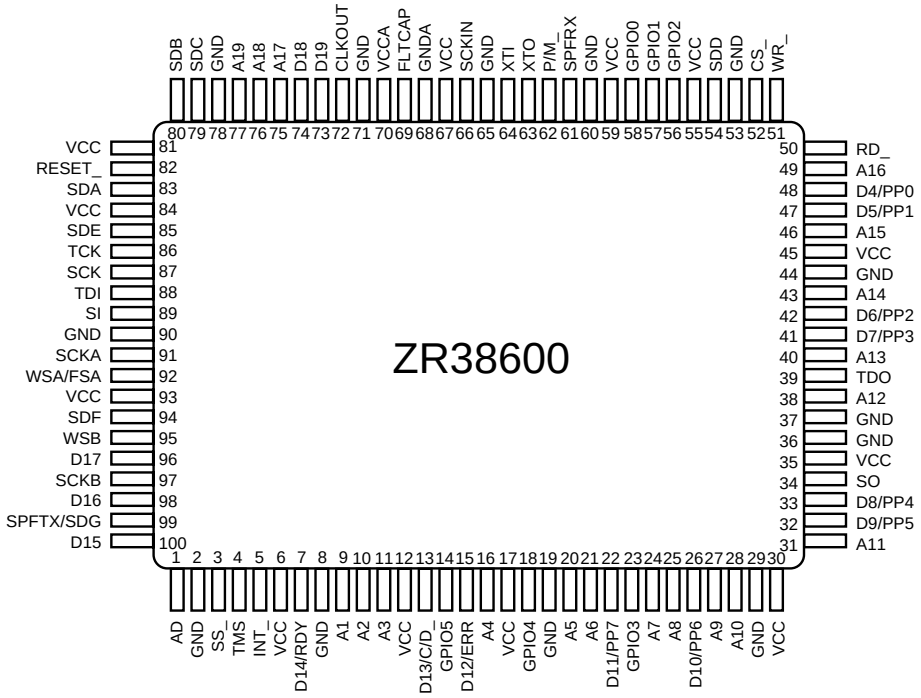
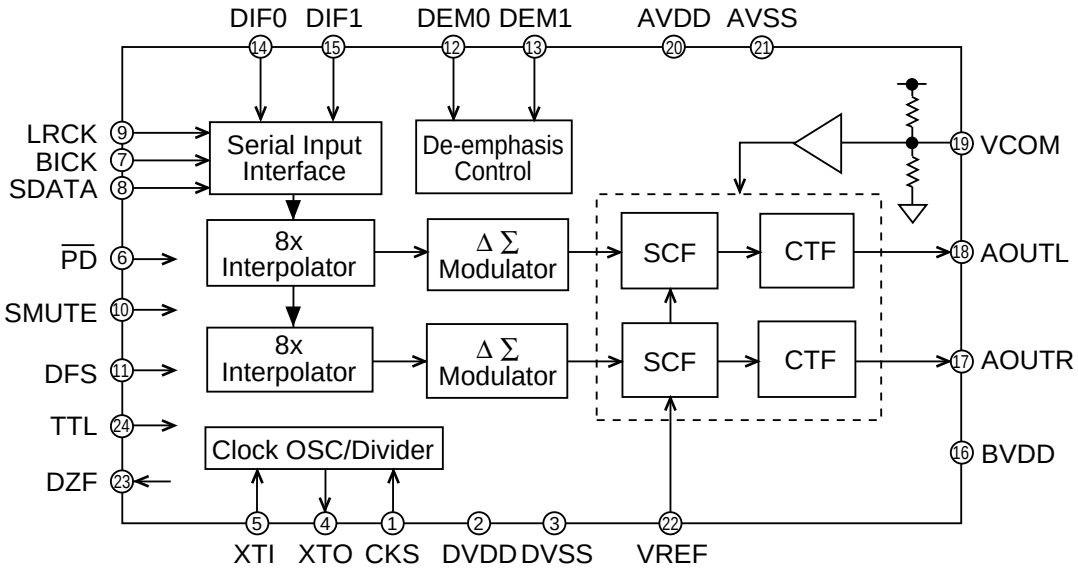

SDB SDC GND A19 A18 A17 D18 D19 CLKOUT GND VCCA FLTCAP GNDA VCC SCKIN GND XTI XTO P/M_ SPFRX GND VCC GPIO0 GPIO1 GPIO2 VCC SDD GND CS_ WR_
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51
VCC 81
RESET_ 82
SDA 83
VCC 84
SDE 85
TCK 86
SCK 87
TDI 88
SI 89
GND 90
SCKA 91
WSA/FSA 92
VCC 93
SDF 94
WSB 95
D17 96
SCKB 97
D16 98
SPFTX/SDG 99
D15 100
ZR38600
50 RD_
49 A16
48 D4/PP0
47 D5/PP1
46 A15
45 VCC
44 GND
43 A14
42 D6/PP2
41 D7/PP3
40 A13
39 TDO
38 A12
37 GND
36 GND
35 VCC
34 SO
33 D8/PP4
32 D9/PP5
31 A11
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
AD GND SS_ TMS INT_ VCC D14/RDY GND A1 A2 A3 VCC D13/C/D_ GPIO5 D12/ERR A4 VCC GPIO4 GND A5 A6 D11/PP7 GPIO3 A7 A8 D10/PP6 A9 A10 GND VCC

Figure 46 BLOCK DIAGRAM OF IC

IC809,810 VHiAK4321VF-1: D/A Converter (AK4321VF)



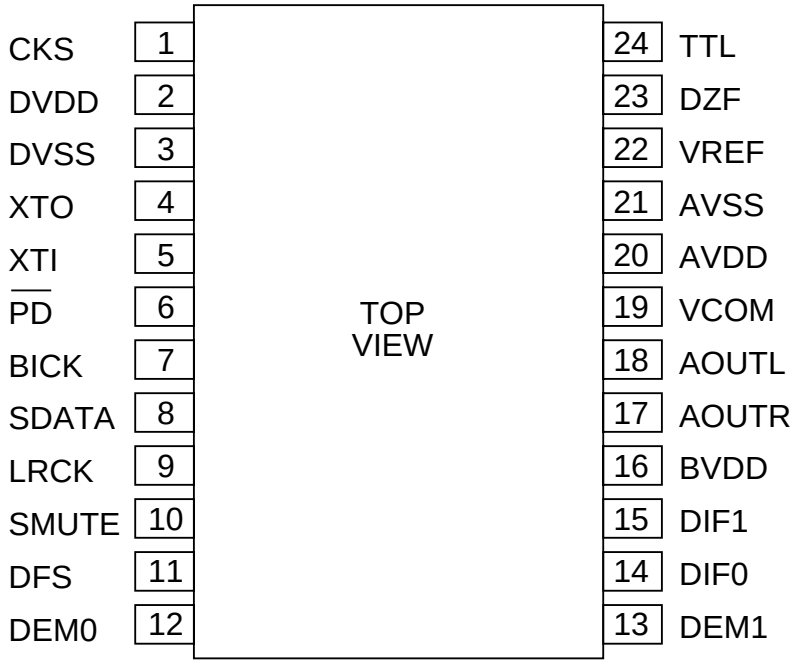
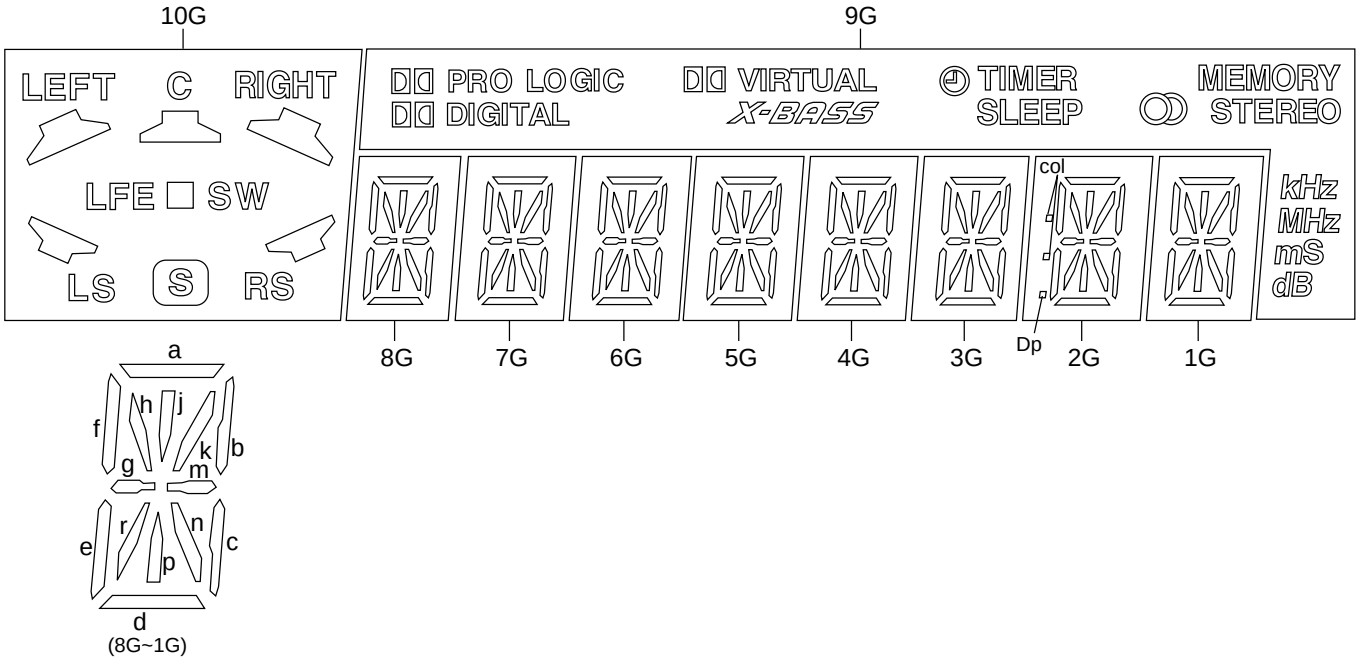


Figure 47 BLOCK DIAGRAM OF IC

FL701 VVKBT211GK/-1: FL SEGMENT



ANODE CONNECTION

	10G	9G	8G~3G	2G	1G		10G	9G	8G~3G	2G	1G
P1	RIGHT	DIGITAL	a	a	a	P9		STEREO	c	c	c
P2	C	PRO LOGIC	h	h	h	P10		MEMORY	e	e	e
P3	LEFT	X-BASS	j	j	j	P11	RS	kHz	r	r	r
P4		VIRTUAL	k	k	k	P12	S	MHz	p	p	p
P5		SLEEP	b	b	b	P13	LS	mS	n	n	n
P6			f	f	f	P14	—	dB	d	d	d
P7	SW	TIMER	m	m	m	P15	—	—	—	Dp	—
P8	LFE		g	g	g	P16	—	—	—	col	—

Figure 48 FL SEGMENT

SHARP PARTS GUIDE

MODEL HT-DD5000 HT-DD5000C

HT-DD5000/C consisting of HT-DD5000/C,CP-F5000, CP-SW5000,CP-C5000 and CP-SR5000

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

HT-DD5000/C

INTEGRATED CIRCUITS

IC1	RH-IX0004SJZZ	J	BG	System Microcomputer, IX0004SJ
IC201	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC202	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC203	VHILA1833//-1	J	AV	FM/AM IF MPX.,LA1833
IC401	VHIM62446FP-1	J	AY	6ch Electronic Volume, M62446FP
IC402	VHITC9273F/-1	J	AV	Function Switch,TC9273F
IC403	VHINJM2279D-1	J	AT	Video Switch,NJM2279D
IC404	VHINJM4558M-1	J	AC	Motor Driver,NJM4558M
IC405	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
IC406~408	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC411,412	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC581	VHINJM4565D-1	J	AC	Headphone Amp.,NJM4565D
IC701	VHISTK41009-1	J	BV	Power Amp.,STK41009
IC751	VHISTK41009-1	J	BV	Power Amp.,STK41009
IC801,802	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
IC803	VHIAK4520A/-1	J	AU	20bit 2ch A/D D/A Converter, AK4520A
IC805	VHITC7WU04F-1	J	AD	Inverter,TC7WU04F
IC806	VHI74HC153F-1	J	AH	Inverter,74HC153F
IC808	VHIZR38600/-1	J	BK	Dolby AC-3/5.1ch MPEG2 Audio Decorder,ZR38600
IC809,810	VHIAK4321VF-1	J	AQ	D/A Converter,AK4321VF
IC811	VHINJM4580M-1	J	AE	Ope Amp.,NJM4580M
IC812	VHITC4066BF-1	J	AG	Analog Switch,TC4066BF
IC813	VHINJM4580M-1	J	AE	Mix Amp.,NJM4580M

TRANSISTORS

Q1~4	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q6	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q7,8	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q9~11	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q12	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q13	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q201	VS2SC535-C/-1	J	AC	Silicon,NPN,2SC535 C
Q202	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q203	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q281	VS2SC535-C/-1	J	AC	Silicon,NPN,2SC535 C
Q405	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
Q406	VS2SB562-C/-1	J	AD	Silicon,PNP,2SB562 C
Q407~414	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q501	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q503,504	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q505~508	VSKRC231S//-1	J		Mute,NPN,KRC231 S
Q601,602	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
Q603	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q611	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q620	VS2SB1375Y/-1	J	AE	Silicon,PNP,2SB1375 Y
Q621	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q622	VS2SD2012Y/-1	J	AF	Silicon,NPN,2SD2012 Y
Q623	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q624	VS2SD2012Y/-1	J	AF	Silicon,NPN,2SD2012 Y
Q625	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
Q651~653	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q654,655	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q656	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q657	VSKTA1270Y/-1	J	AD	Silicon,PNP,KTA1270 Y
Q658	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q671	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q672	VSKTA1270Y/-1	J	AD	Silicon,PNP,KTA1270 Y
Q681,682	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q703~707	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q753~757	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q801	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q802	VSKRA107M//-1	J	AE	Digital,PNP,KRA107 M
Q803	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M

DIODES

D1~7	VHD1N4148//-1	J	AA	Silicon,1N4148
D201,202	VHD1N4148//-1	J	AA	Silicon,1N4148
D205	VHD1N4148//-1	J	AA	Silicon,1N4148
D401,402	VHD1N4148//-1	J	AA	Silicon,1N4148
D403~406	VHD1SS133//-V	J	AC	Silicon,1SS133
D409	VHD1SS133//-V	J	AC	Silicon,1SS133
D601~604	VHD1N4004//-1	J	AB	Silicon,1N4004
D607	VHD1N4004//-1	J	AB	Silicon,1N4004
D611~614	VHD1N4004//-1	J	AB	Silicon,1N4004
D621,622	VHDBR102J02-1	J	AM	Silicon,BR102J02
D623~630	VHD1N4004//-1	J	AB	Silicon,1N4004
D631,632	VHD1N4148//-1	J	AA	Silicon,1N4148
D651~659	VHD1N4148//-1	J	AA	Silicon,1N4148
D671,672	VHD1N4148//-1	J	AA	Silicon,1N4148
D674~679	VHD1N4148//-1	J	AA	Silicon,1N4148
D681,682	VHD1N4148//-1	J	AA	Silicon,1N4148
D701~706	VHD1N4148//-1	J	AA	Silicon,1N4148
D731,732	VHD1N5402M/-1	J	AE	Silicon,1N5402M
D740,741	VHD1N4004//-1	J	AB	Silicon,1N4004
D751~756	VHD1N4148//-1	J	AA	Silicon,1N4148
D781,782	VHD1N5402M/-1	J	AE	Silicon,1N5402M
D801~804	VHD1SS133//-V	J	AC	Silicon,1SS133
LED1,2	VHPL1154HDB1F	J	AH	LED,Red,L1154HDB1F
VD201	VHCKV1236Z23F	J	AS	Variable Capacitance, KV1236Z23F
VD202,203	VHCKDV147C/-1	J	AH	Variable Capacitance,KDV147C
ZD1	VHEMTZJ3R9B-1	J	AC	Zener,3.9V,MTZJ3.9B
ZD201	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD401,402	VHEMTZJ7R5C-1	J	AC	Zener,7.5V,MTZJ7.5C
ZD601	VHEMTZJ6R8A-1	J	AA	Zener,6.8V,MTZJ6.8A
ZD602	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZD611	VHEMTZJ330C-1	J	AB	Zener,33V,MTZJ33C
ZD612	VHEMTZJ6R8C-1	J	AA	Zener,6.8V,MTZJ6.8C
ZD621	VHEMTZJ130A-1	J	AC	Zener,13V,MTZJ13A
ZD622	VHEMTZJ130C-1	J	AB	Zener,13V,MTZJ13C
ZD623	VHEMTZJ6R2B-1	J	AC	Zener,6.2V,MTZJ6.2B
ZD624	VHEMTZJ3R9B-1	J	AC	Zener,3.9V,MTZJ3.9B
ZD671	VHEMTZJ5R1A-1	J	AB	Zener,5.1V,MTZJ5.1A
ZD672	VHEMTZJ4R7C-1	J	AC	Zener,4.7V,MTZJ4.7C
ZD701,702	VHEMTZJ7R5C-1	J	AC	Zener,7.5V,MTZJ7.5C
ZD751,752	VHEMTZJ7R5C-1	J	AC	Zener,7.5V,MTZJ7.5C

FILTERS

BF201	RFILR0008AWZZ	J	AE	Band Pass Filter
CF201	RFILF0072AFZZ	J	AG	FM IF
CF202	RFILF0002SJZZ	J	AH	FM IF
CF203	RFILA0009AWZZ	J	AE	AM IF

TRANSFORMERS

T201	RCILA0007SJZZ	J	AG	AM Antenna
T202	RCILI0005SJZZ	J	AF	FM IF
T203	RCILB0009SJZZ	J	AG	OSC,AM
T204	RCILI0004SJZZ	J	AF	AM IF
⚠ T601	RTRNP0006SJZZ	J	AY	Power
⚠ T602	RTRNP0012SJZZ	J		Power [U]
⚠ T602	RTRNP0018SJZZ	J		Power [C]

COILS

L1	VP-DH101K0000	J	AB	100 µH,Choke
L2	VP-DH101K0000	J	AB	100 µH,Choke
L201	RCILR0003SJZZ	J	AD	FM RF
L202	RCILB0010SJZZ	J	AG	OSC,FM
L203,204	VP-DH101K0000	J	AB	100 µH,Choke
L205	VP-DH102K0000	J	AB	1 mH,Choke
L401~404	VP-DH1R0M0000	J	AB	1 µH,Choke
L405	VP-DH101K0000	J	AB	100 µH,Choke
L701~703	RCILZ0001SJZZ	J	AD	0.3 µH,Spring Coil
L751~753	RCILZ0001SJZZ	J	AD	0.3 µH,Spring Coil
L801~804	VP-XFR82K0000	J	AD	0.82 µH,Choke
L806	VP-XF100K0000	J	AB	10 µH,Choke
L807,808	VP-XFR82K0000	J	AD	0.82 µH,Choke

VARIABLE RESISTOR

VR201	RVR-M0999AFZZ	J	AB	10 kohm (B),Semi-VR [FM Mute Level]

VIBRATORS

X202	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
X801	RCRSP0008AWZZ	J	AH	Crystal,12.288 MHz
XL1	RCRSP0051AF01	J	AK	Crystal,32.768 kHz
XL2	RCRM-0029AWZZ	J	AE	Ceramic,8 MHz

CAPACITORS

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C1,2	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C3,4	VCCCTV1HH220J	J	AA	22 pF (CH),50V
C5	RC-GZA108AF0J	J	AC	1000 µF,6.3V,Electrolytic
C6	RC-GZA226AF1H	J	AB	22 µF,50V,Electrolytic
C7~9	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C10,11	VCKYTV1HB102K	J	AA	0.001 µF,50V
C12,13	VCKYTV1EF103Z	J	AA	0.01 µF,25V
C14	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C15	VCKYTV1EF103Z	J	AA	0.01 µF,25V
C16	VCKYTV1HB102K	J	AA	0.001 µF,50V
C17	RC-GZA227AF0J	J	AB	220 µF,6.3V,Electrolytic
C18	RC-GZA107AF0J	J	AB	100 µF,6.3V,Electrolytic
C20	RC-GZA474AF1H	J	AA	0.47 µF,50V,Electrolytic
C111~114	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C201	VCKYTV1HB102K	J	AA	0.001 µF,50V
C202	VCKYTV1HB103K	J	AA	0.01 µF,50V
C203	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C204	VCCUTV1HJ7R0D	J	AA	7 pF (UJ),50V
C205	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C206	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C207	VCKYPA1HB102K	J	AA	0.001 µF,50V
C208	VCKYTV1HB102K	J	AA	0.001 µF,50V
C209	VCCCPA1HH150J	J	AA	15 pF (CH),50V
C210	VCCSTV1HL330J	J	AA	33 pF,50V
C212	VCCCTV1HH220J	J	AA	22 pF (CH),50V
C213	VCKYPA1HB101K	J	AA	100 pF,50V
C214	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C215	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C216	VCCCTV1HH4R7C	J	AA	4.7 pF (CH),50V
C217	VCCCTV1HH180J	J	AA	18 pF (CH),50V
C218	VCCUPA1HJ8R0D	J	AA	8 pF,50V
C219	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C220	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C221	VCCUPA1HJ180J	J	AA	18 pF (UJ),50V
C222	VCCCPA1HH180J	J	AA	18 pF (CH),50V
C223	VCKYPA1HB471K	J	AA	470 pF,50V
C224	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C225	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C226	VCCSPA1HL330J	J	AA	33 pF,50V
C227	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C228	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C229,230	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C231	VCCSPA1HL220J	J	AA	22 pF,50V
C232	VCKYPA1HB102K	J	AA	0.001 µF,50V
C233	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C234	RC-GZA224AF1H	J	AA	0.22 µF,50V,Electrolytic
C235	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C236	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C237	RC-GZA335AF1H	J	AB	3.3 µF,50V,Electrolytic
C238	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C239	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C240	VCKYTV1EB104K	J	AA	0.1 µF,25V
C241	VCKYTV1HB681K	J	AA	680 pF,50V
C242	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C243	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C244	VCCSPA1HL560J	J	AA	56 pF,50V
C245	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C246	VCKYPA1HB392K	J	AA	0.0039 µF,50V
C247	VCTYPA1CX104K	J	AB	0.1 µF,16V
C248	VCTYPA1EX472K	J	AA	0.0047 µF,25V
C249	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C250	VCKYTV1HB102K	J	AA	0.001 µF,50V
C251,252	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C253,254	VCTYPA1EX183K	J	AA	0.018 µF,25V
C255	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C260	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C261	VCCCTV1HH120J	J	AA	12 pF (CH),50V
C262	VCCCTV1HH150J	J	AA	15 pF (CH),50V
C263	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C264	VCKYPA1HB102K	J	AA	0.001 µF,50V
C265	VCKYTV1HB103K	J	AA	0.01 µF,50V
C266	VCKYTV1HB331K	J	AA	330 pF,50V
C267	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C268	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C269	VCKYTV1HB102K	J	AA	0.001 µF,50V
C270	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C271	RC-GZA227AF1C	J	AB	220 µF,16V,Electrolytic
C272	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C273	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C274	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C275	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C276	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C281	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C282	VCKYTV1EF103Z	J	AA	0.01 µF,25V
C285	VCKYPA1HF103Z	J	AB	0.01 µF,16V
C286	VCCSTV1HL180J	J	AA	18 pF,50V
C401,402	RC-GZA336AF1C	J	AB	33 µF,16V,Electrolytic
C403,404	VCKYPA1HB391K	J	AA	390 pF,50V
C405,406	VCKYTV1HB391K	J	AA	390 pF,50V
C407	VCKYPA1HB221K	J	AA	220 pF,50V
C408	RC-GZA336AF1C	J	AB	33 µF,16V,Electrolytic
C409~412	VCKYTV1HB391K	J	AA	390 pF,50V
C413	VCKYPA1HB391K	J	AA	390 pF,50V
C414	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C415	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C417~424	VCKYTV1HB391K	J	AA	390 pF,50V
C425,426	RC-GZA336AF1C	J	AB	33 µF,16V,Electrolytic
C427,428	VCKYTV1HB561K	J	AA	560 pF,50V
C429,430	VCKYTV1HB822K	J	AA	0.0082 µF,50V
C431,432	VCKYTV1HB222K	J	AA	0.0022 µF,50V
C433,434	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C435,436	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C437,438	VCKYTV1HB331K	J	AA	330 pF,50V
C439	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C440	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film
C441	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C442	VCFYHA1HA474J	J	AD	0.47 µF,50V,Thin Film
C443~460	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C461,462	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C463,464	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C465,466	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C467,468	VCKYTV1HB221K	J	AA	220 pF,50V
C469,470	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C471,472	VCCSTV1HL470J	J	AA	47 pF,50V
C473,474	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C475A	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C475B,476B	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C476A	VCKYTV1HB102K	J	AA	0.001 µF,50V
C477,478	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C479,480	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C481~492	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C493	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C494	VCKYTV1HB102K	J	AA	0.001 µF,50V
C495,496	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C497,498	VCKYTV1HB221K	J	AA	220 pF,50V
C499,500	VCCSTV1HL470J	J	AA	47 pF,50V
C501,502	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C503,504	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C505,506	VCKYTV1HB102K	J	AA	0.001 µF,50V
C507	VCKYTV1HB221K	J	AA	220 pF,50V
C508	VCKYTV1CB104K	J	AA	0.1 µF,16V
C509,510	VCCSTV1HL470J	J	AA	47 pF,50V
C511,512	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C513,514	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C515,516	VCKYTV1HB102K	J	AA	0.001 µF,50V
C517,518	VCKYTV1HB221K	J	AA	220 pF,50V
C519,520	VCCSTV1HL470J	J	AA	47 pF,50V
C521,522	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C523,524	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C525,526	VCKYTV1HB102K	J	AA	0.001 µF,50V
C527,528	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C529	VCKYTV1HB822K	J	AA	0.0082 µF,50V
C530	VCKYTV1HB153K	J	AA	0.015 µF,50V
C531	VCKYTV1CB334K	J	AC	0.33 µF,16V
C532,533	RC-GZA105AF1H	J	AB	1 µF,50V,Electrolytic
C534	VCKYTV1HB822K	J	AA	0.0082 µF,50V
C535	VCKYTV1HB153K	J	AA	0.015 µF,50V
C536	VCKYTV1CB334K	J	AC	0.33 µF,16V
C551,552	VCKYTV1HB221K	J	AA	220 pF,50V
C553,554	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C555,556	VCCSTV1HL470J	J	AA	47 pF,50V
C557,558	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C561,562	VCKYTV1HB221K	J	AA	220 pF,50V
C563,564	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C565,566	VCCSTV1HL470J	J	AA	47 pF,50V
C567,568	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C569,570	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C573	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C581,582	VCKYTV1HB221K	J	AA	220 pF,50V
C583,584	VCCSTV1HL470J	J	AA	47 pF,50V
C585,586	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C587,588	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C589	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C601,602	VCFYHA1HA473J	J	AB	0.047 µF,50V,Thin Film
C603	RC-GZV228AF1C	J	AG	2200 µF,16V,Electrolytic
C604	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C605	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C606	RC-GZA476AF1C	J	AB	47 µF,16V,Electrolytic
C607	VCKYPA1HF223Z	J	AB	0.022 µF,50V
⚠ C608	RC-KZ0093GEZZ	J		0.0047 µF,250V,Electrolytic
C609	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C610	RC-KZ0093GEZZ	J		0.0047 µF,250V,Electrolytic
C611,612	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C613	RC-GZA476AF1J	J	AC	47 µF,63V,Electrolytic
C614	RC-GZV227AF1J	J	AD	220 µF,63V,Electrolytic
C615	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
C616,617	RC-GZA107AF1V	J	AB	100 µF,35V,Electrolytic
C618,619	VCKYPA1HF473Z	J	AB	0.047 µF,50V
C621~624	VCFYHA1HA104J	J	AB	0.1 µF,50V,Thin Film
C625,626	VCFYHA1HA473J	J	AB	0.047 µF,50V,Thin Film
C627	RC-GZA227AF1E	J	AB	220 µF,25V,Electrolytic
C628	VCKYPA1HF223Z	J	AB	0.022 µF,50V
C629	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C631,632	VCFYHA1HA473J	J	AB	0.047 µF,50V,Thin Film
C633	RC-GZW478AF1E	J	AG	4700 µF,25V,Electrolytic
C634	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C635,636	VCFYHA1HA473J	J	AB	0.047 µF,50V,Thin Film
C637	RC-GZW338AF1E	J	AG	3300 µF,25V,Electrolytic
C638	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C639	RC-GZV227AF1C	J	AB	220 µF,16V,Electrolytic
C640	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C641	RC-GZV108AF0J	J	AC	1000 µF,6.3V,Electrolytic
C657,658	VCKYPA1HB102K	J	AA	0.001 µF,50V
C665,666	VCKYPA1HB102K	J	AA	0.001 µF,50V
C671,672	RC-GZA106AF1H	J	AB	10 µF,50V,Electrolytic
C673	RC-GZA476AF1H	J	AB	47 µF,50V,Electrolytic
C677	VCKYPA1HB102K	J	AA	0.001 µF,50V
C681	VCKYPA1HB102K	J	AA	0.001 µF,50V
C688,689	VCKYPA1HB102K	J	AA	0.001 µF,50V
C701,702	RC-GZW478AF1V	J	AH	4700 µF,35V,Electrolytic
C703~705	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C707~709	VCCSBT1HL470J	J	AA	47 pF,50V
C710~712	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C713~715	VCCSPA1HL150J	J	AA	15 pF,50V
C716~718	VCQYKA1HM102K	J	AA	0.001 µF,50V,Mylar
C719~724	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C725,726	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C727	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C728	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C731,732	RC-GZA107AF1V	J	AB	100 µF,35V,Electrolytic
C733~736	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C751,752	RC-GZW478AF1H	J	AH	4700 µF,50V,Electrolytic
C753~755	RC-GZA225AF1H	J	AB	2.2 µF,50V,Electrolytic
C757~759	VCCSBT1HL470J	J	AA	47 pF,50V
C760~762	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C763~765	VCCSPA1HL150J	J	AA	15 pF,50V
C766~768	VCQYKA1HM102K	J	AA	0.001 µF,50V,Mylar
C769~774	RC-QZA224AFYJ	J	AB	0.22 µF,50V,Mylar
C775,776	VCQYKA1HM223J	J	AB	0.022 µF,50V,Mylar
C777	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C778	RC-GZA227AF1A	J	AB	220 µF,10V,Electrolytic
C781,782	RC-GZA107AF1V	J	AB	100 µF,35V,Electrolytic
C783~786	RC-GZA107AF1H	J	AC	100 µF,50V,Electrolytic
C801,802	RC-GZA226AF1C	J	AB	22 µF,16V,Electrolytic
C803,804	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C805~808	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C809,810	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C811,812	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C813	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C814	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C815	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C816,817	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C818	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C819	VCKYTV1HB102K	J	AA	0.001 µF,50V
C820	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C821~823	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C824	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C825	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C826	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C827	VCKYTV1HB102K	J	AA	0.001 µF,50V
C828~839	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C840	RC-GZA108AF0J	J	AC	1000 µF,6.3V,Electrolytic
C841	RC-GZA107AF1A	J	AB	100 µF,10V,Electrolytic
C842	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C843	VCKYPA1HB102K	J	AA	0.001 µF,50V
C844,845	VCCCTV1HH150J	J	AA	15 pF (CH),50V
C846	VCKYTV1EF103Z	J	AA	0.01 µF,25V
C847,848	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C849~851	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C852	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C853,854	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C855,856	VCKYTV1HB153K	J	AA	0.015 µF,50V
C857,858	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C859,860	VCKYTV1HB153K	J	AA	0.015 µF,50V
C861	VCKYTV1EF103Z	J	AA	0.01 µF,25V
C862,863	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C864~866	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C867	RC-GZA107AF1C	J	AB	100 µF,16V,Electrolytic
C869,870	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C871	VCKYTV1HB153K	J	AA	0.015 µF,50V
C872	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C873	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C874	VCCSTV1HL470J	J	AA	47 pF,50V
C875,876	VCKYTV1EF104Z	J	AA	0.1 µF,25V
C877	VCKYTV1HB103K	J	AA	0.01 µF,50V
C878	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C880	VCKYTV1HB471K	J	AA	470 pF,50V
C881,882	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C883	VCKYPA1HB102K	J	AA	0.001 µF,50V
C884	RC-GZA106AF1C	J	AB	10 µF,16V,Electrolytic
C885,886	VCKYPA1HB102K	J	AA	0.001 µF,50V
C887,888	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C889~892	VCCSTV1HL101J	J	AA	100 pF,50V
C893,894	RC-GZA476AF1E	J	AB	47 µF,25V,Electrolytic
C895	VCKYPA1HB102K	J	AA	0.001 µF,50V
C897,898	VCKYPA1HB102K	J	AA	0.001 µF,50V

RESISTORS

	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
J202	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R1~5	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5A0	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5A1,5A2	VRS-TV2AB334J	J	AA	330 kohms,1/10W
R5A3,5A4	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5A5,5A6	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R5A7,5A8	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R5A9	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5B0	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5B1,5B2	VRS-TV2AB334J	J	AA	330 kohms,1/10W
R5B3,5B4	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5B5,5B6	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R5B7,5B8	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R5B9	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R5C1,5C2	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R6~33	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R35~39	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R40,41	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R42~50	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R54~56	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R58~60	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R63,64	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R66	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R69~72	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R73,74	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R75	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R88~90	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R92	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R111~114	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R115	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R120,121	VRD-ST2EE182J	J	AA	1.8 kohms,1/4W
R122	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W
R123	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W
R124	VRD-ST2EE562J	J	AA	5.6 kohms,1/4W
R125	VRD-ST2EE103J	J	AA	10 kohm,1/4W
R126,127	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
R128	VRS-TV2AB272J	J	AA	2.7 kohms,1/10W
R129	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R130	VRD-ST2EE562J	J	AA	5.6 kohms,1/4W
R131	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R132	VRD-ST2EE182J	J	AA	1.8 kohms,1/4W
R133	VRS-TV2AB182J	J	AA	1.8 kohms,1/10W
R134	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W
R138,139	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R140	VRD-ST2EE332J	J	AA	3.3 kohms,1/4W
R141	VRS-TV2AB104J	J	AA	100 kohm,1/10W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R142	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R143,144	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R145	VRS-TV2AB820J	J	AA	82 ohms,1/10W
R146	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R147	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R148	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R149	VRS-TV2AB151J	J	AA	150 ohms,1/10W
R150	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R151~154	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R156	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R157~159	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R161	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R162~168	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R170	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R171~173	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R175	VRD-ST2EE562J	J	AA	5.6 kohms,1/4W
R201	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R202	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R203	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R204	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R205	VRD-ST2EE681J	J	AA	680 ohms,1/4W
R206	VRS-TV2AB100J	J	AA	10 ohm,1/10W
R207	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R208	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R209	VRD-ST2EE471J	J	AA	470 ohms,1/4W
R210	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R211	VRD-ST2EE104J	J	AA	100 kohm,1/4W
R212	VRD-ST2EE330J	J	AA	33 ohms,1/4W
R213	VRD-ST2EE220J	J	AA	22 ohms,1/4W
R214	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R215	VRD-ST2EE104J	J	AA	100 kohm,1/4W
R216	VRD-ST2EE472J	J	AA	4.7 kohms,1/4W
R217	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R218	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R219	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R220	VRS-TV2AB271J	J	AA	270 ohms,1/10W
R221	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R222	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R223	VRD-ST2EE474J	J	AA	470 kohms,1/4W
R224	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R225	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R226	VRD-ST2EE472J	J	AA	4.7 kohms,1/4W
R227	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W
R228	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R229,230	VRD-ST2EE272J	J	AA	2.7 kohms,1/4W
R231	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R232~235	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R236	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R237	VRD-ST2EE562J	J	AA	5.6 kohms,1/4W
R238	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R239	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R240	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R241	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R242,243	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R244	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R245	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R246,247	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R248	VRD-ST2EE102J	J	AA	1 kohm,1/4W
R249	VRD-ST2EE473J	J	AA	47 kohms,1/4W
R250	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R251	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R253	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R281	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R282	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R283	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R285	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R299	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R401A,B	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R402A,B	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R403,404	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R405,406	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R407,408	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R409,410	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R411A,B	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R412A,B	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R415,416	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R417,418	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R419,420	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R421A,B	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R423,424	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R425,426	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R427,428	VRS-TV2AB273J	J	AA	27 kohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R429,430	VRS-TV2AB392J	J	AA	3.9 kohms,1/10W
R433,434	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R435,436	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R437,438	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R439,440	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R441,442	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R443,444	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R445,446	VRS-TV2AB394J	J	AA	390 kohms,1/10W
R447,448	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R449,450	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R451,452	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R455,456	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R457,458	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R465~482	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R483,484	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R487,488	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R489,490	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R491,492	VRS-TV2AB822J	J	AA	8.2 kohms,1/10W
R493,494	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R495A,496A	VRS-TV2AB561J	J	AA	560 ohms,1/10W
R495B,496B	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R501,502	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R503~512	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R513~515	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R516	VRS-TV2AB100J	J	AA	10 ohm,1/10W
R517,518	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R519,520	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R521,522	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R523,524	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R525,526	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R527,528	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R529~532	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R533	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R534	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R535,536	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R537	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R538	VRS-TV2AB822J	J	AA	8.2 kohms,1/10W
R539,540	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R541,542	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R543~546	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R547,548	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R549,550	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R551,552	VRS-TV2AB183J	J	AA	18 kohms,1/10W
R553,554	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R555,556	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R557,558	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R559,560	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R561,562	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R565,566	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R567,568	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R571,572	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R574	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R575,576	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R577	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R578	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R581,582	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R583,584	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R585,586	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R587,588	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R589,590	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R591A,592A	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R591B,592B	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R594~598	VRS-TV2AB104J	J	AA	100 kohm,1/10W
⚠ R601	RR-HZ0001AWZZ	J	AE	4.7 Mohms,1/2W
R603	VRD-ST2EE821J	J	AA	820 ohms,1/4W
R604,605	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R606	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R607	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R608	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R610	VHHRXE030//-1	J	AN	Thermistor,Positive/Negative C
R611,612	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R613	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R614	VRD-ST2EE101J	J	AA	100 ohm,1/4W
R615	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R616,617	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R620	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R621	VRD-ST2EE220J	J	AA	22 ohms,1/4W
R622	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R624	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R625	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R627	VRD-ST2EE820J	J	AA	82 ohms,1/4W
R628	VRD-ST2EE220J	J	AA	22 ohms,1/4W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R651	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R652	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R653	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R654	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R655	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R656	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R657	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R658	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R659	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R661	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R662	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R663	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R673	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R674	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R675	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R676	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R677	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R678	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R679	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R684	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R685	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R686	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R687	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R701~703	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R704	VRD-ST2EE333J	J	AA	33 kohms,1/4W
R705,706	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R707,708	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R709	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R710	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R711,712	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R713	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R715,716	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R717,718	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R719	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R720	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R721~723	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R725~728	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
R729~732	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R734,735	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
R736,737	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R738~741	VRD-ST2CD563J	J	AA	56 kohms,1/6W
⚠ R742,743	VRG-ST2HC101J	J	AB	100 ohm,1/2W,Fusible
R744,745	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W
R751~753	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R754	VRD-ST2EE333J	J	AA	33 kohms,1/4W
R755,756	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R757,758	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R759	VRD-ST2CD391J	J	AA	390 ohms,1/6W
R760	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R761~763	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R765,766	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R767,768	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R769	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R770	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R771~773	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W
R775~778	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
R779~782	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R784,785	VRS-VV3AAR20J	J	AB	0.2 ohms,1W
R786,787	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R788~791	VRD-ST2CD563J	J	AA	56 kohms,1/6W
⚠ R792,793	VRG-ST2HC101J	J	AB	100 ohm,1/2W,Fusible
R794,795	VRD-ST2EE392J	J	AA	3.9 kohms,1/4W
R801,802	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R803,804	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R805~814	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R815,816	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R817,818	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R819	VRS-TV2AB151J	J	AA	150 ohms,1/10W
R820	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R821	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R822	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R824	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R826,827	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R828~832	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R833	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R834	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R835	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R836	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R838	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R839	VRD-ST2CD561J	J	AA	560 ohms,1/6W
R840~845	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R846,847	VRS-TV2AB271J	J	AA	270 ohms,1/10W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R848,849	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R850	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R852	VRS-TV2AB151J	J	AA	150 ohms,1/10W
R853,854	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R855,856	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R857,858	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R859,860	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R861	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R863	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R865	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R867	VRS-TQ2BB220J	J	AA	22 ohms,1/8W
R871,872	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R873,874	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R875	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R876	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R877	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R878	VRS-TV2AB183J	J	AA	18 kohms,1/10W
R879	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R880	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R882,883	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R887~892	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R893,894	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R895,896	VRS-TV2AB101J	J	AA	100 ohm,1/10W
R897,898	VRS-TV2AB104J	J	AA	100 kohm,1/10W

OTHER CIRCUITRY PARTS

BI3/CNS3	QCNWN0038SJZZ	J	AK	Connector Ass'y,4/4Pin
BI4/CNS4	QCNWN0085SJZZ	J	AQ	Connector Ass'y,8/8Pin
BI5/CNS5	QCNWN0041SJZZ	J	AL	Connector Ass'y,3/3Pin
BI401/CNS401	QCNWN0048SJZZ	J	AN	Connector Ass'y,2/2Pin
BI402/CNS402	QCNWN0047SJZZ	J	AN	Connector Ass'y,3/3Pin
BI403/CNS403	QCNWN0049SJZZ	J	AQ	Connector Ass'y,6/6Pin
BI581/CNS581	QCNWN0050SJZZ	J	AQ	Connector Ass'y,3/3Pin
⚠ BI601/CNS601	QCNWN0039SJZZ	J	AP	Connector Ass'y,2/2Pin
BI602/CNS602	QCNWN0040SJZZ	J	AQ	Connector Ass'y,13/13Pin
BI603/CNS603	QCNWN0076SJZZ	J	AN	Connector Ass'y,5/5Pin
BI611/CNS611	QCNWN0055SJZZ	J	AS	Connector Ass'y,2/2Pin
BI612/CNS612	QCNWN0077SJZZ	J	AM	Connector Ass'y,2/2Pin
BI653/CNS653	QCNWN0051SJZZ	J	AM	Connector Ass'y,3/3Pin
BI701/CNS701	QCNWN0072SJZZ	J	AR	Connector Ass'y,5/5Pin
BI702/CNS702	QCNWN0072SJZZ	J	AR	Connector Ass'y,5/5Pin
BI803/CNS803	QCNWN0054SJZZ	J	AS	Connector Ass'y,5/5Pin
CNP3	QCNCM999DAFZZ	J	AG	Plug,4Pin
CNP4	QCNCM998HAFZZ	J	AH	Plug,8Pin
CNP5	QCNCM999CAFZZ	J	AG	Plug,3Pin
CNP6	QCNCM999BAFZZ	J	AK	Plug,2Pin
CNP201	QCNCM010MAWZZ	J	AC	Plug,10Pin
CNP401	QCNCM999BAFZZ	J	AK	Plug,2Pin
CNP402	QCNCM999CAFZZ	J	AG	Plug,3Pin
CNP403	QCNCM999FAFZZ	J	AL	Plug,6Pin
CNP501	QCNCM010HAWZZ	J	AC	Plug,8Pin
CNP502	QCNCM010LAWZZ	J	AC	Plug,11Pin
CNP581	QCNCM998CAFZZ	J	AK	Plug,3Pin
⚠ CNP601	QCNCM036BAWZZ	J	AC	Plug,2Pin
CNP602	QCNCM998NAFZZ	J	AN	Plug,13Pin
CNP603	QCNCM998EAFZZ	J	AG	Plug,5Pin
CNP611,612	QCNCM999BAFZZ	J	AK	Plug,2Pin
CNP653	QCNCM999CAFZZ	J	AG	Plug,3Pin
CNP701,702	QCNCM999EAFZZ	J	AG	Plug,5Pin
CNP803	QCNCM004ESJZZ	J	AN	Plug,5Pin
CNS1A	QCNCWZF21AWZZ	J	AM	Socket,21Pin
CNS1B	QCNCWZG21AWZZ	J	AM	Socket,21Pin
CNS2A	QCNCWZF20AWZZ	J	AC	Socket,20Pin
CNS2B	QCNCWZG20AWZZ	J	AC	Socket,20Pin
CNS6	QCNWN0102SJZZ	J		Socket,2Pin
CNS201	QCNCW010MAWZZ	J	AD	Plug,12Pin
CNS501	QCNCW010HAWZZ	J	AD	Plug,8Pin
CNS502	QCNCW010LAWZZ	J	AD	Plug,11Pin
CNS801A,B	QCNCWZG18AWZZ	J	AL	Socket,18Pin
CNS802A,B	QCNCWZG09AWZZ	J	AC	Socket,9Pin
CNW404	QCNWN0106SJZZ	J		Lug Wire
CNW804	QCNWN0107SJZZ	J		Lug Wire
⚠ F601	QFS-D102BSJNI	J	AL	Fuse,1A/125V
⚠ F602	QFS-D602BSJNI	J	AD	Fuse,6A/125V
⚠ F606,607	QFS-D502BSJNI	J	AL	Fuse,5A/125V
⚠ F608	QFS-D801BSJNI	J	AG	Fuse,800mA/125V
⚠ F609,610	QFS-D103ESJNI	J	AG	Fuse,10A/125V
⚠ F611	QFS-D132BSJNI	J		Fuse,1.25A/125V
FC1	QCNWN0042SJZZ	J	AS	Flat Cable,21Pin
FC2	QCNWN0044SJZZ	J	AQ	Flat Cable,20Pin
FC801	QCNWN0070SJZZ	J	AQ	Flat Cable,18Pin

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
FC802	QCNWN0071SJZZ	J	AM	Flat Cable,9Pin
FL1	VVKBT211GK/-1	J	BG	FL Display
FW654	QCNWN0086SJZZ	J	AL	Flat Wire,3Pin
J401	QJAKZ0005SJZZ	J	AP	Jack,Video In/Out
J404	QJAKZ0004SJZZ	J	AR	Jack,VCR-2 Input
J405	QJAKZ0001SJZZ	J	AP	Jack,VCR-1 In/Out
J406	QJAKZ0006SJZZ	J	AQ	Jack,Audio In/Out
J581	QJAKJ0001SJZZ	J	AM	Jack,Headphones
J801	QJAKZ0003SJZZ	J	AL	Jack,DVD Digtal Input,Coaxial
J802	VHPGP1F38R/-1	J	AM	Terminal,Digital Input,GP1F38R
M671	RMOTV0439AFZZ	J	AM	Motor,Cooling Fan
⚠ RLY601	RRLYD0001SJZZ	J	AQ	Relay
RX1	VHLN64H380A-1	J	AK	Remote Sensor,N64H380A
RY651,652	RRLYD0008AWZZ	J	AN	Relay
RY653	RRLYD0003SJZZ	J	AV	Relay
RY654	RRLYD0008AWZZ	J	AN	Relay
RY681,682	RRLYD0008AWZZ	J	AN	Relay
⚠ SO601	QSOCA0199AFZZ	J	AE	Socket,AC Outlet
SO651	QTANA0001SJZZ	J	AL	Terminal,Front Speaker
SO681	QTANA0001SJZZ	J	AL	Terminal,Center/Surround Speaker/Sub Woofer
SOC201	QTANC0301AWZZ	J	AH	Terminal,Antenna
SW1	QSW-P0002SJZZ	J	AH	Switch,Push Type [POWER]
SW2	QSW-K0005AWZZ	J	AC	Switch,Key Type [TIMER/SLEEP]
SW4	QSW-K0005AWZZ	J	AC	Switch,Key Type [EQUALIZER]
SW5	QSW-K0005AWZZ	J	AC	Switch,Key Type [X-BASS]
SW6	QSW-K0005AWZZ	J	AC	Switch,Key Type [ENTER]
SW7	QSW-K0005AWZZ	J	AC	Switch,Key Type [VOLUME DOWN]
SW8	QSW-K0005AWZZ	J	AC	Switch,Key Type [VOLUME UP]
SW9	QSW-K0005AWZZ	J	AC	Switch,Key Type [MEMORY/SET]
SW10	QSW-K0005AWZZ	J	AC	Switch,Key Type [TUNING UP]
SW11	QSW-K0005AWZZ	J	AC	Switch,Key Type [TUNING DOWN]
SW12	QSW-K0005AWZZ	J	AC	Switch,Key Type [TUNER/BAND]
SW13	QSW-K0005AWZZ	J	AC	Switch,Key Type [CD/AUX]
SW14	QSW-K0005AWZZ	J	AC	Switch,Key Type [VCR-2]
SW15	QSW-K0005AWZZ	J	AC	Switch,Key Type [VCR-1]
SW16	QSW-K0005AWZZ	J	AC	Switch,Key Type [DOLBY DIGITAL]
SW17	QSW-K0005AWZZ	J	AC	Switch,Key Type [PHONO]
SW18	QSW-K0005AWZZ	J	AC	Switch,Key Type [MD/TAPE]
SW19	QSW-K0005AWZZ	J	AC	Switch,Key Type [DVD]
SW23	QSW-Z0003AWZZ	J	AH	Switch,Push Type [JOG]
SW651	QSW-P0003SJZZ	J	AH	Switch,Push Type [SPEAKERS A/B]

CABINET PARTS

201	CPNLC1010SJ01	J	BU	Front Panel Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	HBDGA1002SJSA	J	AF	Badge,SHARP
201- 3	HDECB0002SJSA	J	AL	Decoration,Leg
201- 4	PCUSG0001SJZZ	J	AD	Leg Cushion
202	GITAR0002SJSA	J	AX	Rear Panel [U]
202	GITAR0005SJSA	J		Rear Panel [C]
203	LANGK0004SJFW	J	AF	Bracket,Tuner PWB (A)
204	LANGK0005SJFW	J	AE	Bracket,Tuner PWB (B)
205	LANGK0008SJFW	J	AK	Bracket,Heat Sink (D)
206	GLEGP0001SJSA	J	AF	Leg
207	LANGF0001SJFW	J	AR	Bracket,Power Transformer
208	LANGF0002SJFW	J	AM	Bracket,Chassis
209	LCHSM0002SJFW	J	BD	Main Chassis
210	LANGZ0001SJFW	J	AY	Bracket,Front Panel
211	LANGK0012SJFW	J		Bracket,Jack PWB
212	PSHEF0001SJZZ	J		Protection Sheet
213	LBSHC0001SJZZ	J	AE	Bushing,AC Power Supply Cord
214	PSLDM3001SJFW	J	AT	Shield A,Dolby
215	LHLDW1001SJZZ	J	AD	Nylon Band
216	PCOVW1005SJZZ	J	AN	Cover,Power PWB
217	LANGK0006SJFW	J	AL	Bracket,Fan
218	MSPRK0001SJFJ	J	AG	Spring,Fan Stoper
219	NFANP0001SJSA	J		Fan
⚠ 220	QACCD0022AWZZ	J	AM	AC Power Supply Cord
221	LANGK0002SJFW	J	AE	Bracket,Heat Sink (A)
222	LANGK0009SJFW	J	AL	Bracket,Heat Sink (C)
223	PRDAR0003SJZZ	J	AX	Heat Sink (A)
224	PRDAR0006SJZZ	J	BF	Heat Sink (B)
225	PRDAR0007SJZZ	J	AM	Heat Sink (C)
226	PRDAR0008SJZZ	J	AN	Heat Sink (D)
227	QFSHD0001AWZZ	J	AB	Holder,Fuse
228	JKNBZ0009SJSA	J	AL	Knob,Mode
229	JKNBZ0010SJSA	J	AN	Knob,Function
230	JKNBK0009SJSB	J	AF	Knob,Volume
231	MSPRD0004SJFJ	J	AD	Spring,Volume
232	JKNBK0012SJSA	J	AL	Knob,Speaker
233	JKNBK0013SJSA	J	AL	Knob,Power
234	JKNBK0008SJSA	J	AG	Knob,Jog
235	HDECQ0004SJSA	J	AG	Decoration Ring,Jog
236	HDECQ0005SJSA	J	AQ	FL Panel
237	LHLDZ1007SJZZ	J	AF	Holder,FL Display
238	LHLDZ1008SJZZ	J	AF	Holder,LED
239	GCAB-3002SJSA	J	BG	Top Cabinet
240	LANGK0012SJFW	J		Bracket,Main PWB
241	PSHEF0001SJZZ	J		Sheet,Main PWB Bracket
601	XJBSF30P10000	J	AA	Screw,ø3×10mm
602	LX-HZ0169AFFD	J	AA	Screw,ø4×8mm
603	XJBSD30P06000	J	AA	Screw,ø3×6mm
604	XJBSD30P08000	J	AA	Screw,ø3×8mm
605	XHBSD30P10000	J	AA	Screw,ø3×10mm
606	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
607	XBBSD20P03000	J	AA	Screw,ø2×3mm
608	XJBSD30P10000	J	AA	Screw,ø3×10mm
609	XJBSD30P14000	J	AA	Screw,ø3×14mm
610	XJBSD30P12000	J	AA	Screw,ø3×12mm
611	XEBSD30P10000	J	AA	Screw,ø3×10mm
612	XESSD30P10000	J	AA	Screw,ø3×10mm
613	XEBSF30P08000	J	AA	Screw,ø3×8mm

PACKING PARTS [C ONLY]

	SPAKA0008SJZZ	J		Packing Add.,Top/Bottom,Front Speaker
	SPAKA0009SJZZ	J		Packing Add.,Top/Bottom, Center/Surround Speaker
	SPAKA0010SJZZ	J		Packing Add.,Top/Bottom,Sub Woofer
	SPAKA0012SJZZ	J		Packing Add.,Left/Right,Unit
	SPAKC0023SJZZ	J		Packing Case
	SSAKA0002SJZZ	J	AE	Polyethylene Bag,Accessories
	SSAKA0002SJZZ	J	AE	Polyethylene Bag,Speaker Cord
	SSAKH0002SJZZ	J	AF	Polyethylene Bag,Unit
	9GDHSY911C008	J		C-Pad,Center Speaker
	9GDHSY911C009	J		Polyethylene Sheet,Center Speaker
	9GDHSY911F010	J		C-Pad,Front Speaker
	9GDHSY911F014	J		Polyethylene Sheet,Front Speaker
	9GDHSY911R009	J		Polyethylene Sheet,Surround Speaker
	9GDHSY911S007	J	AM	Polyethylene Bag,Center Speaker
	9GDHSY911S008	J	AL	Polyethylene Bag,Surround Speaker
	9GDHSY911S009	J	AL	Polyethylene Bag,Sub Woofer/ Front Speaker

ACCESSORIES

	QANTL0001SJZZ	J	AK	AM Loop Antenna
	QANTW0001SJZZ	J	AH	FM Wire Antenna
	QCNWG0003SJZZ	J	AR	Connecting Cord,RCA Type, RCA 2
	QCNWG0004SJZZ	J	AT	Connecting Cord,RCA Type, RCA 1
	QCNWH0001SJZZ	J	AR	Speaker Cord,Front/Center Speaker/Sub Woofer
	QCNWH0002SJZZ	J	AZ	Speaker Cord,Surround Speaker
	RRMCG0004SJSA	J	BB	Remote Control
	GFTAB1007SJSA	J		Battery Lid,Remote Control
	TINSE0009SJZZ	J	AG	Operation Manual [U]
	TINSK0006SJZZ	J		Operation Manual [C]
	TINSZ0008SJZZ	J	AD	Quick Guide [U Only]
	TLABR0984SJZZ	J	AD	Label,Bar Code

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A	DCEKM0001SJ03	J	—	Main
PWB-B1~3	DCEKJ0002SJ03	J	—	Audio Jack/Dolby/Digtal Input Jack (Combined Ass'y)

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
PWB-C	DCEKR0001SJ03	J	—	Tuner
PWB-D1~9	DCEKN0003SJ03	J	—	Display/Power/Trans A/Trans B/ Video Jack/Headphones/Switch /VCR Input Jack/Spacer (Combined Ass'y)

SPEAKER BOX PARTS FRONT SPEAKER CP-F5000

701	9GDHSY911F001	J	BB	Net Frame Ass'y
702	9GDHSY911F002	J	BH	Speaker Box Ass'y
703	9GDHSY911F007	J	AN	Label,Specification
704	9GDHSY911F006	J	AN	Screw,ø4×12mm
705	9GDHSY911F008	J	AN	Absorber
C1,2	9GDHSY911F005	J	AP	Capacitor,Film,3.9 µF,100V,NP
SP1,2	VSP0016WBE78A	J	BK	Woofer
SP3,4	VSP0050TBL38A	J	AV	Tweeter

SPEAKER BOX PARTS SUB WOOFER CP-SW5000

701	9GDHSY911S001	J	BD	Net Frame Ass'y
702	9GDHSY911S002	J	AW	Duct Panel Ass'y
703	9GDHSY911S003	J	AP	Duct
704	PGSK-0001SJZZ	J	AD	Duct Cushion
705	9GDHSY911S004	J	BQ	Speaker Box Ass'y
706	9GDHSY911S006	J	AN	Screw,ø4×16mm
707	9GDHSY911S007	J	AM	Screw,ø3×10mm
708	9GDHSY911S008	J	AL	Label,Specification
709	9GDHSY911F008	J	AN	Absorber
SP1	VSP0016WBE88A	J	BP	Woofer

SPEAKER BOX PARTS CENTER SPEAKER CP-C5000

701	9GDHSY911C001	J	BB	Net Frame Ass'y
702	9GDHSY911C002	J	BL	Speaker Box Ass'y
703	9GDHSY911F006	J	AN	Screw,ø4×12mm
704	9GDHSY911C006	J	AM	Label,Specifications
C1	9GDHSY911C005	J	AN	Capacitor,Film,3.9 µF,50V,NP
SP1	VSP0013WB298A	J	BH	Woofer
SP2	VSP0050TBL38A	J	AV	Tweeter

SPEAKER BOX PARTS SURROUND SPEAKER CP-SR5000

701	9GDHSY911R001	J	AZ	Net Frame Ass'y
702	9GDHSY911R002	J	BM	Speaker Box Ass'y
703	9GDHSY911F006	J	AN	Screw,ø4×12mm
704	9GDHSY911R006	J	AN	Bracket
705	9GDHSY911R007	J	AM	Label,Specifications
C1,2	9GDHSY911R005	J	AN	Capacitor,Film,3.3 µF,50V,NP
SP1,2	VSP0013WB308N	J	BH	Woofer
SP3,4	VSP0050TBL48N	J	AY	Tweeter

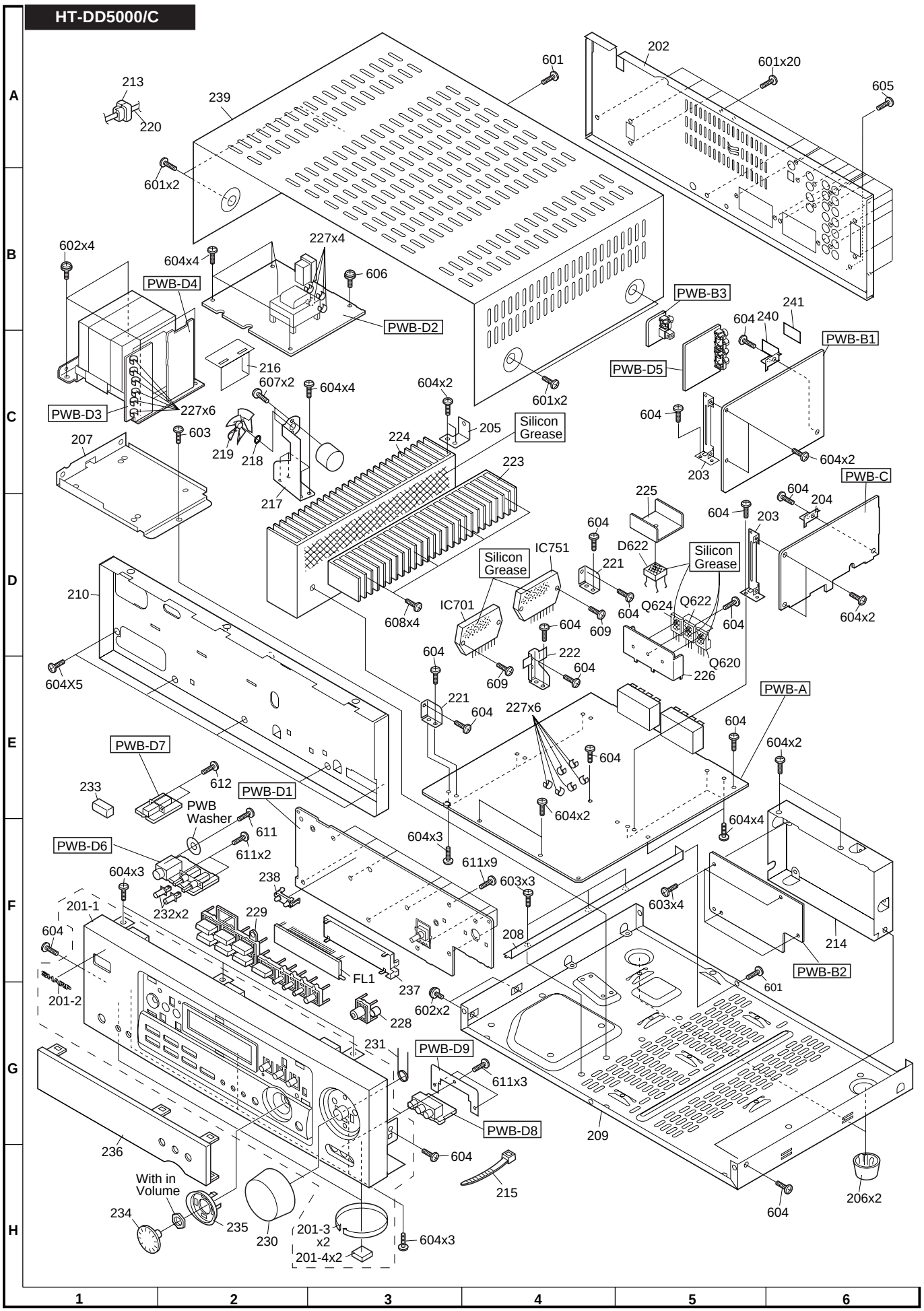


Figure 8 CABINET EXPLODED VIEW

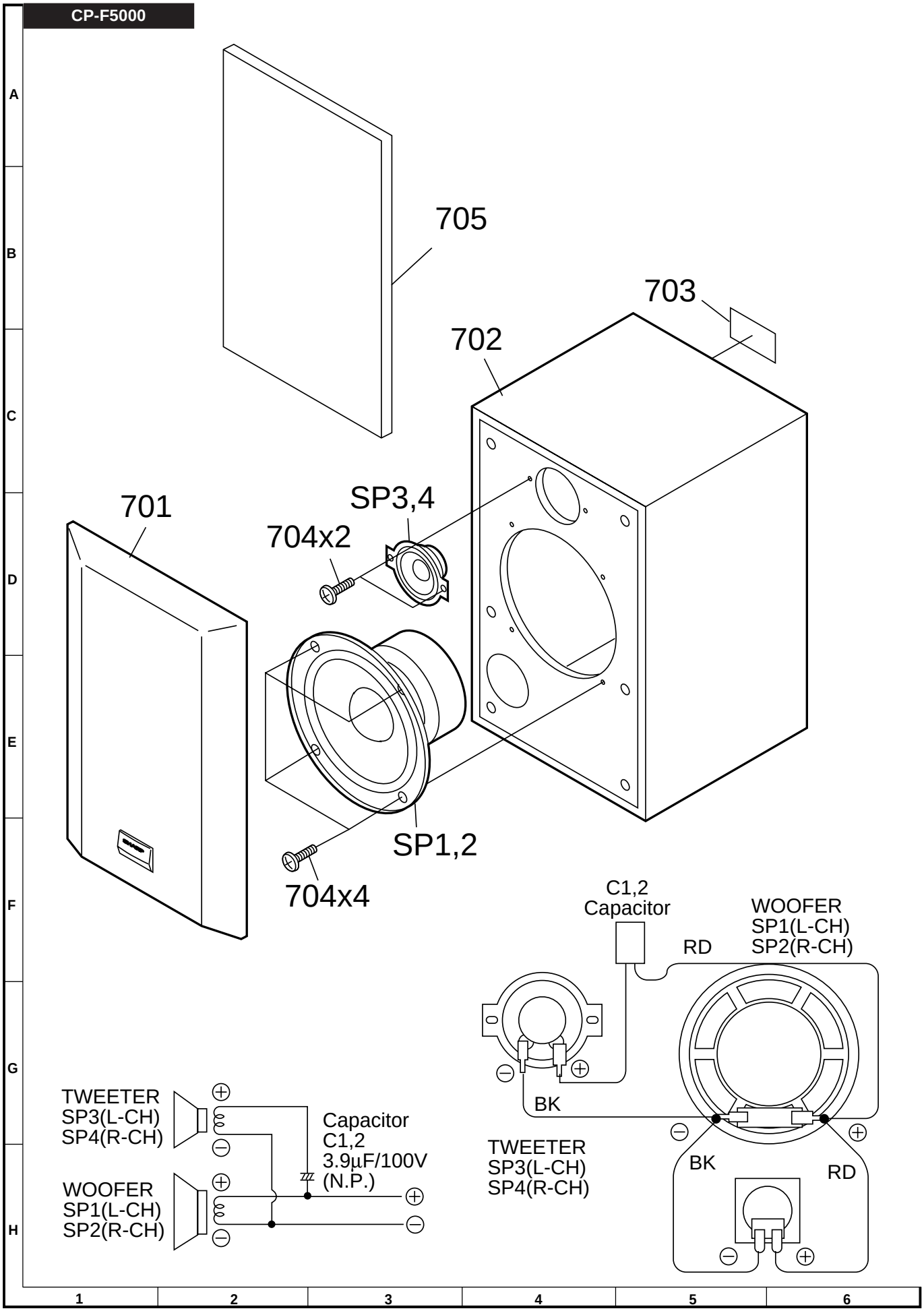


Figure 9 SPEAKER EXPLODED VIEW (1/4)

CP-SW5000

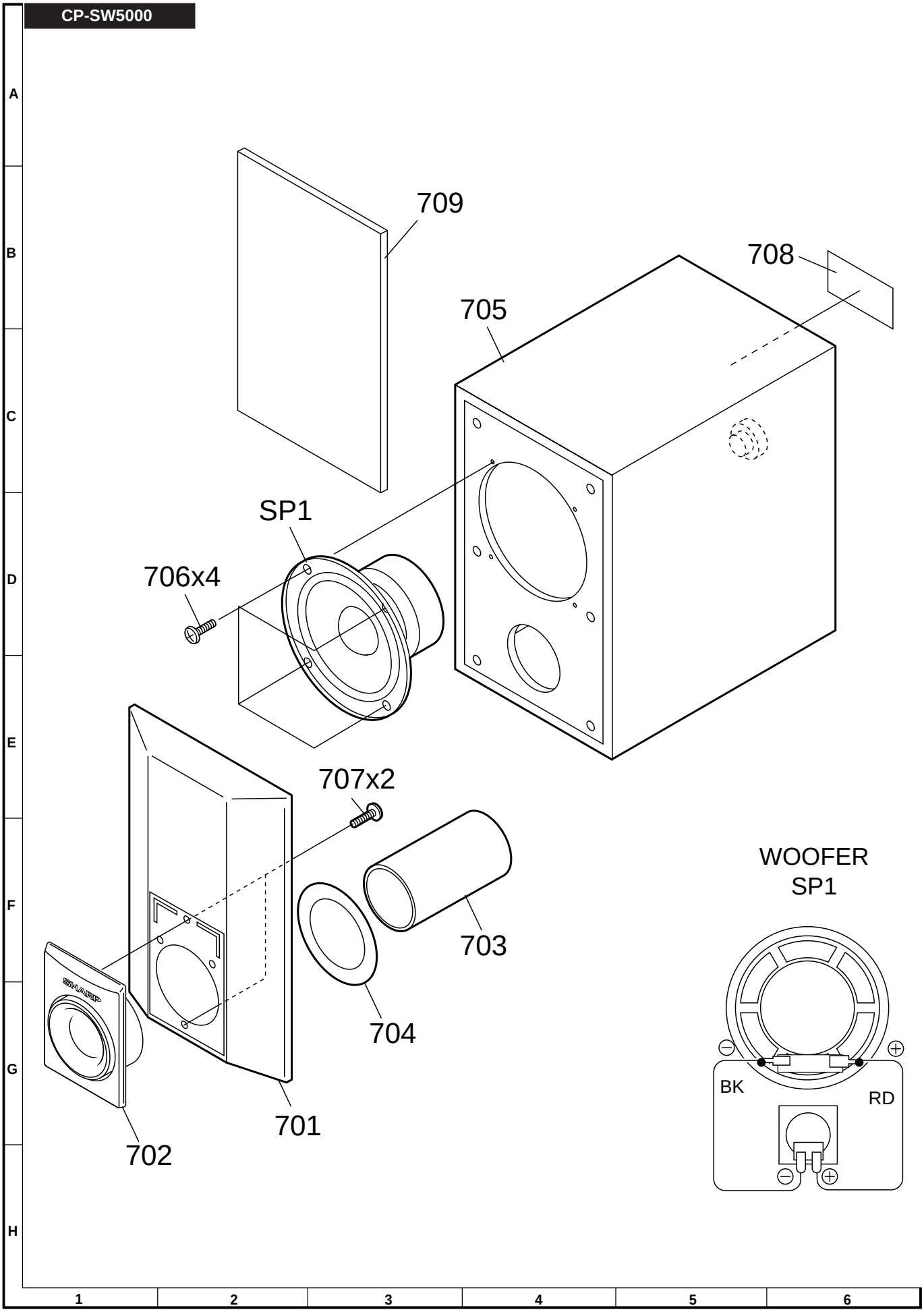


Figure 10 SPEAKER EXPLODED VIEW (2/4)

CP-C5000

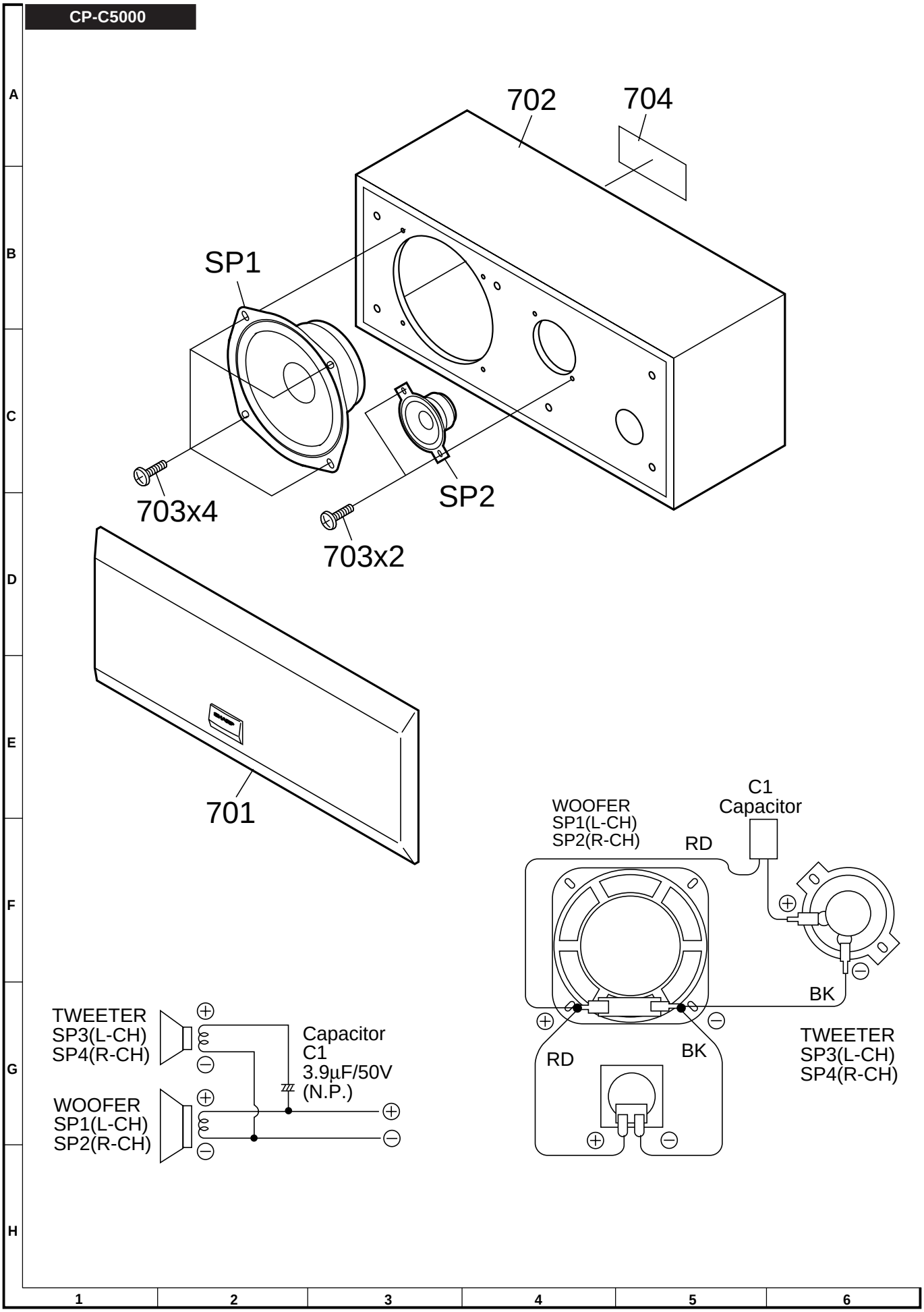
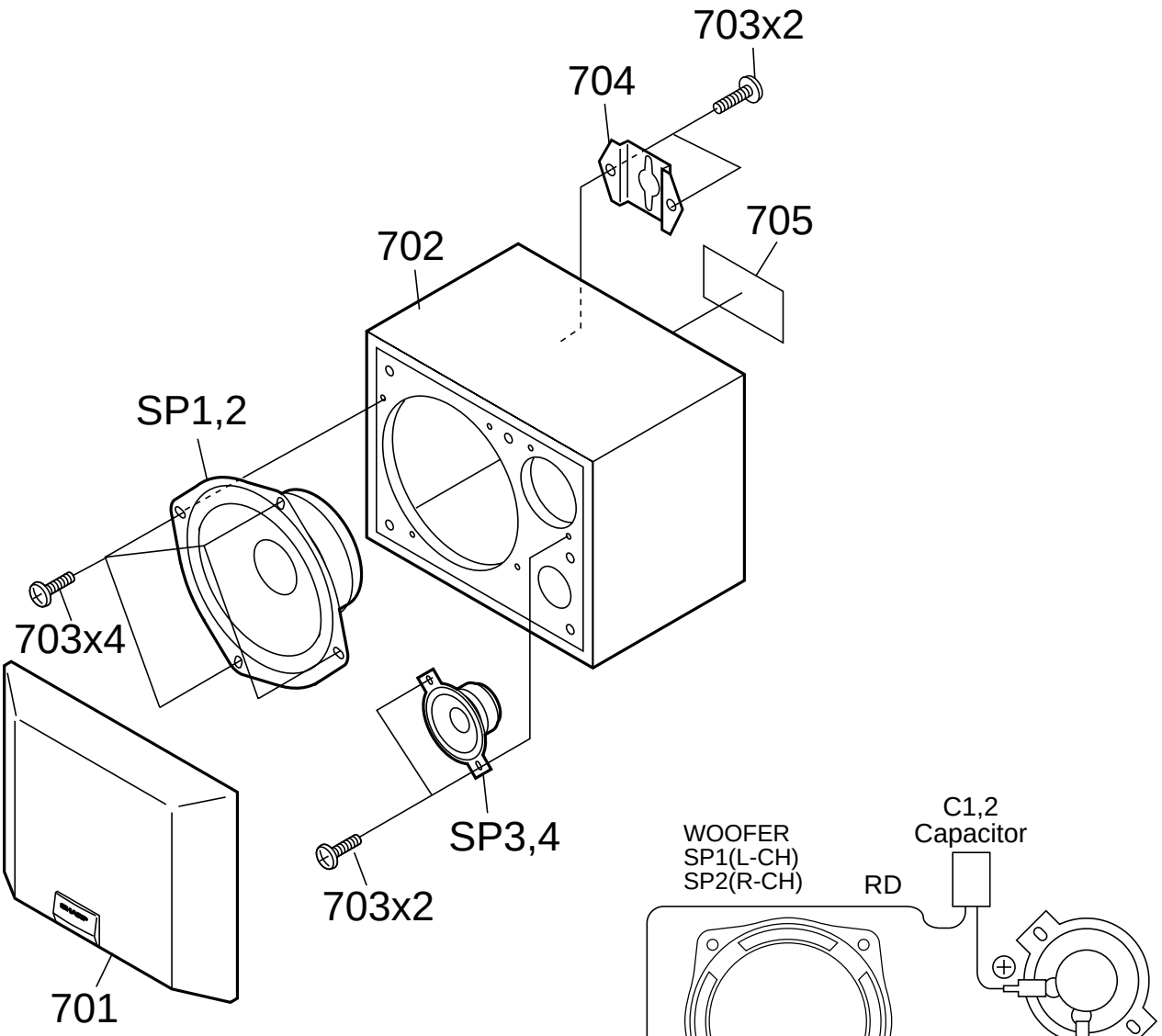
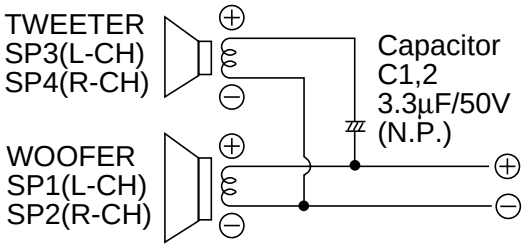


Figure 11 SPEAKER EXPLODED VIEW (3/4)

CP-SR5000





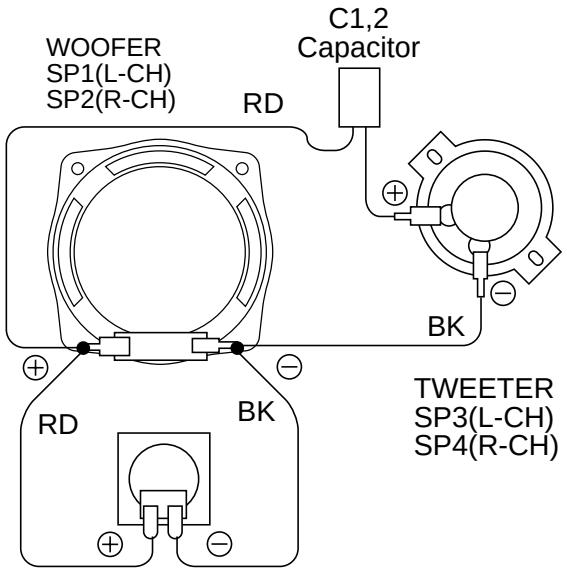
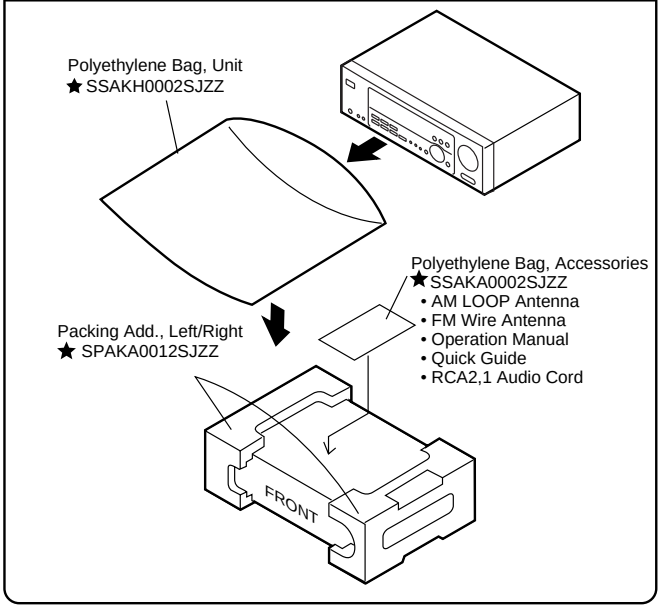


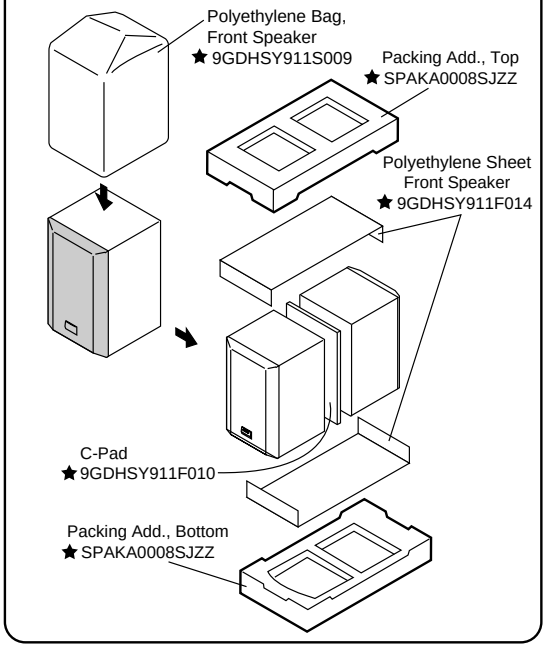
Figure 12 SPEAKER EXPLODED VIEW (4/4)

PACKING OF THE SET (FOR U.S.A. ONLY)

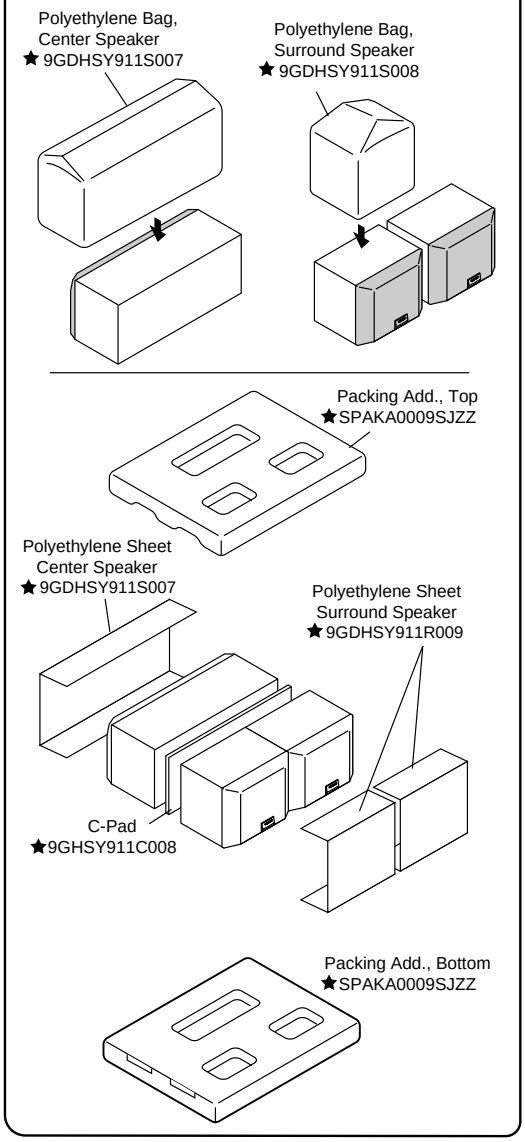
Unit



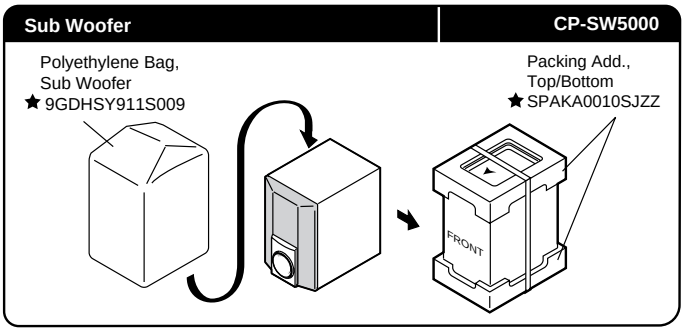
Front Speaker (L/R) — CP-F5000

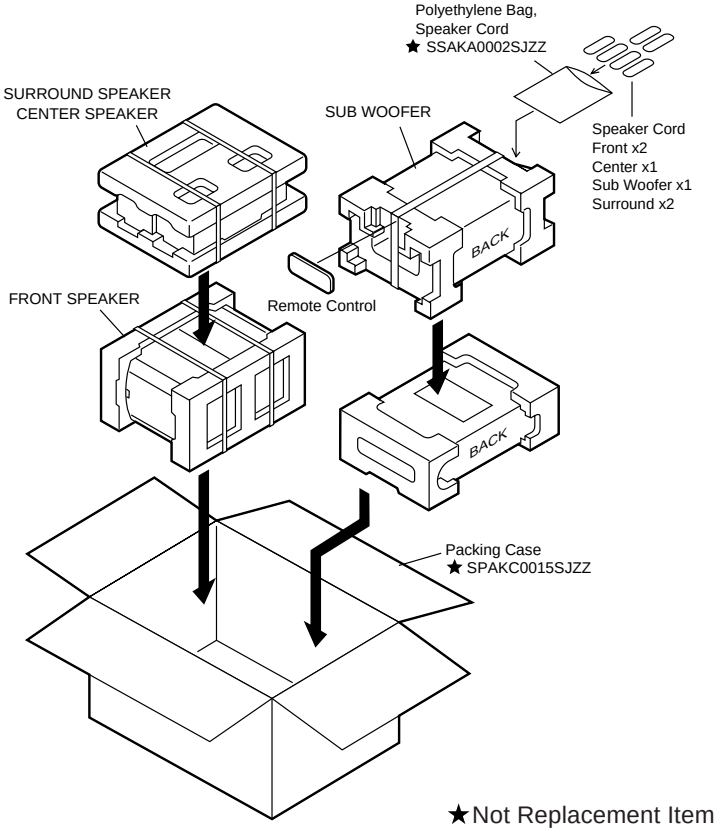


Center Speaker — CP-C5000
Surround Speaker (L/R) — CP-SR5000



Sub Woofer — CP-SW5000





★ Not Replacement Item

— M E M O —

SHARP

COPYRIGHT © 1998 BY SHARP COPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced,
stored in a retrieval system, or transmitted in
any from or by any means, electronic, mechanical,
photocopying, recording, or otherwise, without
prior written permission of the publisher.

SHARP CORPORATION
Communication Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan

Printed in Japan

A9809-2223NS•HA•M

SC • LAG